



Bulkmatic



Powder and Bulk Solids Handling Equipment

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The obvious choice

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BULK SOLIDS HANDLING EQUIPMENT

Bulkmatic manufactures a comprehensive range of quality equipment for the processing and conveying of bulk powders and granules. Use of the latest technology available such as 3-D CAD and laser profiling, water jetting and CNC bending and machining ensures repeatable accuracy and fully interchangeable spare parts.

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The Company

Established in 2000 Bulkmatic has introduced a revised and re-designed product range of equipment for the handling and processing of dry bulk materials.

Although technology is advancing at an alarming rate there is no substitute for experience. We combine both these elements to offer outstanding product quality and economy. Bulkmatic was founded by a team of dedicated entrepreneurs with a combined total of over 100 years of experience in the materials handling field.



The multidisciplinary design team ensures that the equipment is designed with the following considerations in mind – functionality based on over 29 years of practical experience in the industry, innovative and modern manufacturing methods and a constant awareness of the costs involved in manufacturing. With a fresh approach, old problems in industry are being examined in detail and new solutions found.

The new manufacturing facility provides industry with a choice: an extensive and complete range of equipment for dry bulk products handling. The modern manufacturing methods include 3D CAD prototyping and design, laser and waterjet profiling and modern welding processes. These allow production of parts with repeatable size and quality time after time. The benefits are twofold – it allows the equipment to be produced in a shorter time resulting in competitive delivery times and ensures that spare parts are usually available off the shelf and guarantees fast and simple exchange during maintenance.

Our Products

We design and manufacture equipment that includes amongst others: rotary vane feeders, flap valves, knife gates, screw conveyors, diverter valves, vibrating bin dischargers, telescopic loaders and ribbon blenders specifically for the handling of powdered and granular solids. All of the products are designed and manufactured in-house.

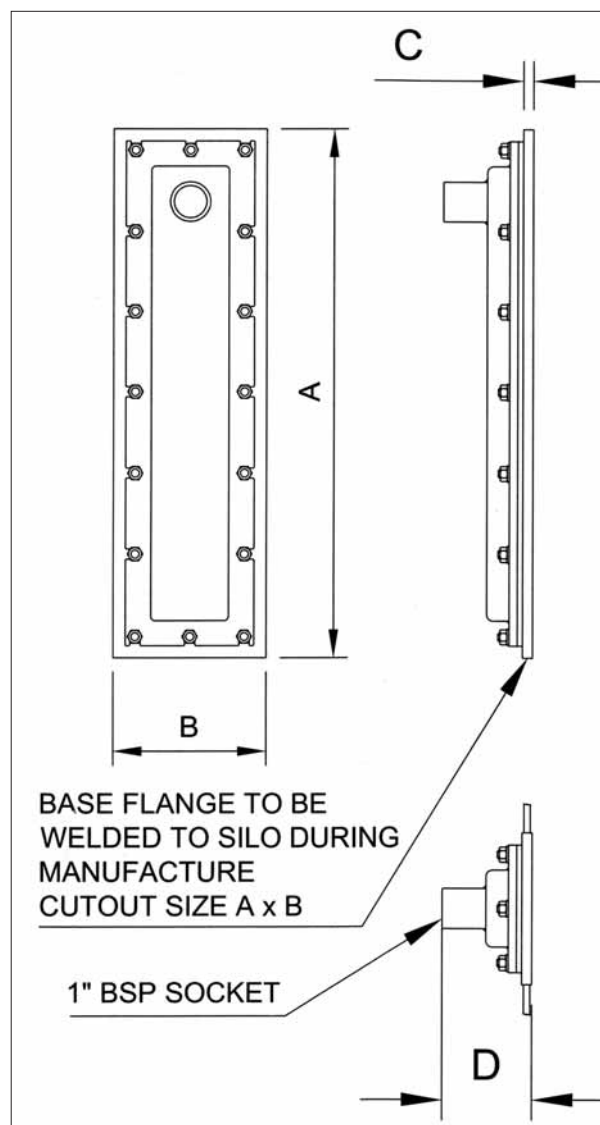


Bulkmatic Aeration Pads are designed to be fitted to the cone of silos for efficient aeration of powdered product in the silo. Standard numbers are four pads for smaller silos, six pads for intermediate size silos and eight pads for larger silos. The mounting frames can easily be retrofitted into the cones of existing silos and the pad material and the air distribution box can be bolted on from the outside. The design of the pads is such that the pad material can be replaced from the outside.

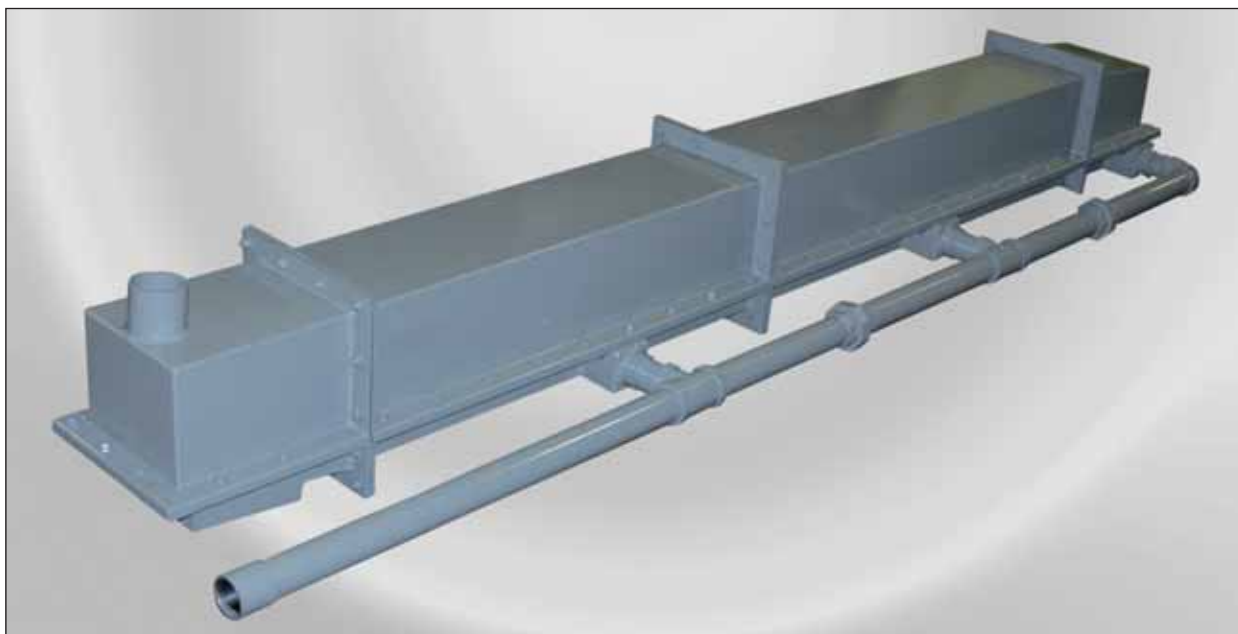
Aeration pads can be supplied as individual items or as a complete package which includes the manifold ring, fittings, rubber hoses and clamps. The manifold ensures even distribution of air to all aeration pads.

Optional extras include the air preparation station with solenoid valve and pressure reducing valve fitted to the inlet of the manifold ring. The manifold ring is supplied with four weld-on tabs that can be retrofitted to the standard silo cone angles where necessary. Material of manufacture is mild steel. Stainless steel versions are also available. High temperature ceramic pad material and high temperature flexible piping between manifold and pads is available on request.

Standard manifold outlets are: 4, 6 and 8.
Other configurations are supplied on request.



Aeration Pads - Pneumatic				
UNIT NO.	A	B	C	D
AP-0500	524	150	10	88
AIR PRESSURE REQUIRED	50-70 kPa			
AIRFLOW (FAD) PER PAD	3.15 m ³ /hr			
WEIGHT kg	5			
MANIFOLD RING CONNECTION	1½" BSP			



Bulkmatic Air Slides are available in standard sizes and are adjusted to suit customer requirements in terms of length. Air slides are manufactured in a trough form with the airslide material clamped between the base trough and the cover.

Support rods distributed along the length of the trough support the airside material. As an option the air slide material can be sandwiched between a metal grid for increased support.

Air piping is fitted to the sectioned base troughs. This ensures that the air is evenly distributed throughout the length of the air slide.

Hand operated valves on each of the air inlet manifolds ensure that the airflow can be adjusted during commissioning to allow for an optimum air flow distribution. Deflector plates ensure that the air does not impinge directly onto the air slide material at the air entry point. Air is supplied by means of a radial fan or by a roots blower.

Generously sized top covers allow for effective venting of the air that filters through the material that is being conveyed and prevents the feed material from being entrained in the venting air.

In conjunction with the Bulkmatic Air Slide Diverter and the Bulkmatic Flow Control Gate, the Air Slide becomes a flexible part of a materials handling solution. Bulkmatic can design and supply a complete air slide system.

Standard material of manufacture is mild steel but units can also be supplied in stainless steel. The standard airslides can handle aeratable material up to 154°C. With the use of special airslide material the feed material temperature may increase to a maximum of 260°C with intermittent feed at up to 315°C.

Bulkmatic prides itself in evaluating each application and supplying the most suitable air slide and equipment combination to the customer.

Standard widths include: 100, 150, 200, 300, 400 and 500. Special sizes, configurations and temperature ranges on request.



Bulkmatic Bag Unloaders are used to unload material from 20, 25 or 50kg paper bags into a process. An integrated 2m² reverse jet pulse filter with an exhaust fan ensures dust free unloading of the bags. Filter bag cleaning is done by means of a compressed air pulse that drops any accumulated dust on the filter bags back into the hopper below. The outlet hopper can be made to suit the application. This could for example be the integration of the Bulkmatic Vertech or vertical lifting screw to elevate the material into a tank or hopper, a rotary feeder to meter material into the process or a manual knife gate to be able to isolate the process below the unloader from the unloading area. Two doors can be closed to isolate the unloading area.



A removable round bar screen in the unloader is used to prevent the bags and paper from falling into the chute below. This can be replaced with a vibrating mesh screen where finer contaminants need to be removed from the material before flowing into the chute below the screen. Units can be manufactured in mild steel, stainless steel 304 or 316 and can be designed to comply with zone 21/22 or zone 1/2 requirements.



Bulkmatic Bucket Elevators are available in standard casing sizes to tie in with flange arrangements of associated equipment such as screw conveyors, rotary feeders and diverter chutes. This allows seamless integration of feeding equipment in terms of the complete materials handling system that the bucket elevator is to be fitted into.

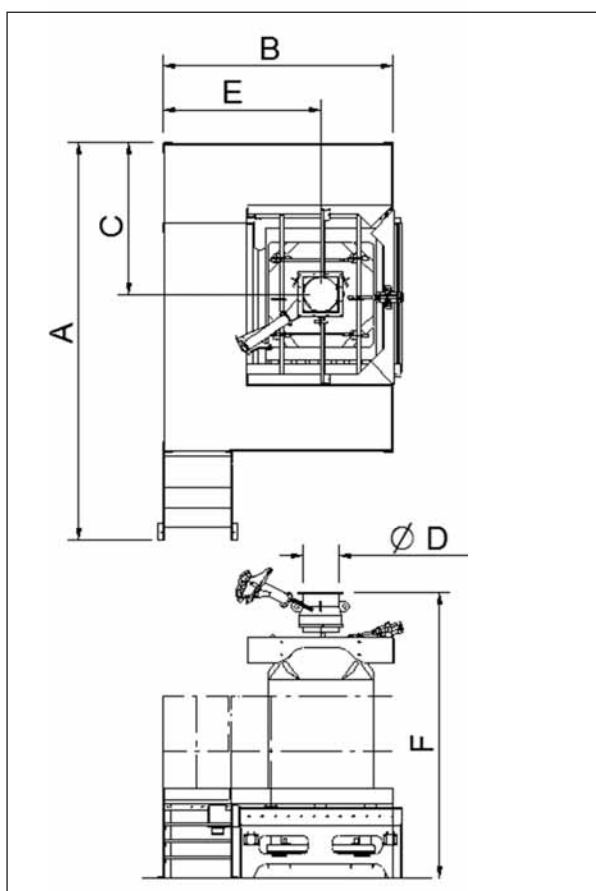
Bulkmatic supplies belt or chain bucket elevators. Drive arrangements are either belt driven via a shaft mounted gearbox with backstop bearing or direct drive with a flexible coupling and backstop.

The material of construction is matched to the application and the units are available in mild steel or stainless steel. Depending on the size of the buckets these can be supplied in HDPE, mild steel or stainless steel.

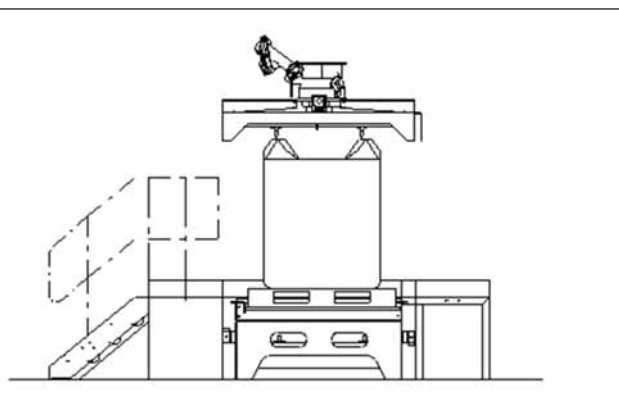
Optional extras include access platforms support brackets, hoist frames on access platforms, catladders, rotation sensors and belt drift sensors.

Standard sizes include: 100, 200, 300, 400, 500, and 600.





Bulkmatic Bulk Bag Fillers are modular in design and can be fitted with various options. Once the bag is fitted in position it is automatically inflated and then filled with material. Loadcells in the base ensure that the bulk bags are loaded to the correct weight with an automatic cut-off when a set weight has been reached. Optional equipment includes a bag vibrating floor to consolidate material in the filled bulk bag and a roller floor – either manual or motorised. Units can be customised for non-standard bulk bag sizes.



Bulk Bag Fillers

UNIT NO.	A	B	C	ØD	E	F	WEIGHT kg
BBF-1000	3610	2090	1380	323	1430	2590	1750

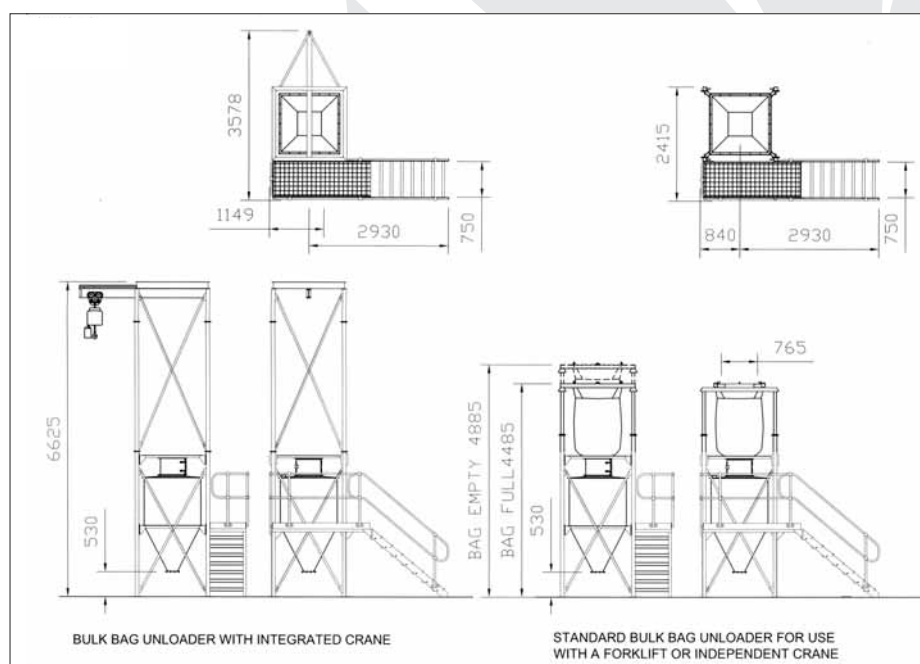
Bulkmatic Bulk Bag Unloaders are designed for easy, semi-automated unloading of bulk bags. The bulk bag support frame is independent of the unloading frame and is designed to be transported by means of a forklift truck or lifted with a crane. The bulk bag is hooked onto the frame and the frame set on top of the unloading gantry on the standard version. Integrated spring columns are compressed by the weight of the full bulk bag after it is released by forklift truck. Bag opening is safely accessible below the compression tray. A material receiving hopper with an integrated dust extraction spout is fitted below the compression tray. As an option an integrated reverse jet pulse filter can be fitted to the bulk bag unloader. Once the bag is open material flows from the bag into the receiving hopper. As bulk bags empty they tend to elongate. This slack is taken up by the spring columns integrated into the frame. These slowly lift the bag as the load lightens and ensures that optimum material flow is achieved from the bag. Specially designed hooks on the top of the frame ensure that the tabs on the bags are securely fastened to the lifting frame even when the bag is empty.

For materials that are difficult to extract from the bag an optional vibrating bag discharger replaces the fixed tray.

Iris valves can also be supplied as an optional extra to give the operator maximum control over the amount of material discharged from the bulk bag. These are



fitted between the compression tray and receiving hopper. Standard material of construction is mild steel. Stainless steel units are available on request. The outlet of the material receiving hopper can be connected to a pneumatic conveying system, screw conveyor, slat conveyor or to the top of a receiving silo depending on customer requirement.



Standard size allows unloading of bulk bags up to 1 ton in weight: Bulk bag size up to 1000 x 1000 x 1250mm are catered for on the standard frame. Other sizes can be accommodated on request.



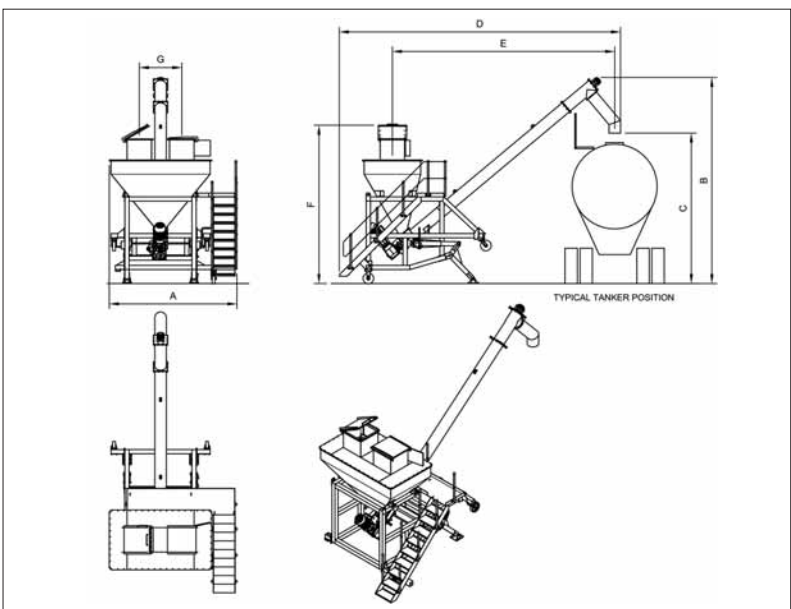
Bulkmatic

Bulkmatic Bulk Tanker Loaders are designed to assist in unloading bulk bags into standard height bulk tankers. Very often imported chemicals, flocculants and other granular and powdered materials are imported in bulk bags. These are then transported from the harbours in bulk bags to minimize transport costs to the point of distribution.



Here the products often need to be loaded into bulk tankers for final delivery to the customer. The bulk tanker loader takes care of this reloading operation. Two bulk bag hatches allow the operator to increase the loading speed by unloading two bulk bags at the same time. An incline screw then elevates the product to the inlet hatch of a bulk tanker.

The unit is also mobile and can be moved to a desired position as required. While standing on all four wheels the unit has a total height of 4240mm. The complete unit is then tilted upward which fixes its standing position and elevates the screw outlet to clear a standard bulk tanker at 4250mm with a total unit height of 5840mm.



The operator accesses the bulk spout opening hatches by standing on a platform that is reached via a stairway attached to the bulk tanker loader. Bag opening is safely accessible below the bulk bag resting tray.

As an option an integrated reverse jet pulse filter can be fitted but requires separate access to compressed air. Units can be manufactured in mild steel or stainless steel depending on the product to be conveyed.

Bulk Tanker Loaders									
UNIT NO.	A	B	C	D	E	F	G	Power kW	WEIGHT kg
BTL-0300-2	3620	5840	4250	7950	6280	4490	3620	15	2899



Motorised

Bulkmatic Butterfly Dampers are available as motorised, pneumatic or hand operated units. They can be supplied with accurate positioning actuators or as a simple open / closed configuration. The shaft stubs are bolted to the robust damper blade. This allows the blade to be replaced.

Sealing strips are fitted to the damper casing and the damper blade closes against the strip. The damper blade and casing flanges are lasercut allowing for precision fitting holes and accurate alignment of the shaft stubs. The shaft stubs are fitted with stuffing glands to seal against a pressure differential where necessary.

The shaft stubs are bearing mounted and the non-driven shaft can be fitted with limit switches. Standard sizes are available to match standard nominal bore ducting or pipework but non-standard diameters can be manufactured to suit. This is particularly relevant where an existing damper needs to be replaced.



Pneumatic

Material of construction is mild steel. Stainless steel and high temperature versions are available on request.

Standard sizes include: 200, 250, 300, 400, 500, 600, 700 and 800. Other sizes and configurations are supplied on request.



Bulkmatic Clamshell Gates are manufactured with pneumatic actuators as standard. The meshing gears of the clamshell halves are custom designed and lasercut to suit the size of the gate.

Clamshell gates are suited for the unrestricted bulk discharge of bulk materials out of silos and bunkers.

In an open position the clams are situated outside the area of material flow thus improving the life cycle of the clamshell due to reduced wear.

The clamshell gate is designed so that most material tends not to push the gates open under normal operating conditions resulting in a 'fail safe' gate should air pressure be lost to the pneumatic cylinder. Cylinder mounted limit switches can be fitted as optional extras.

Valve options include stainless steel construction and fitting of gear covers, linear electric actuators and mechanical limit switches.

Standard sizes include: 200, 250, 300, 350, 400 and 500. Other sizes manufactured on request.

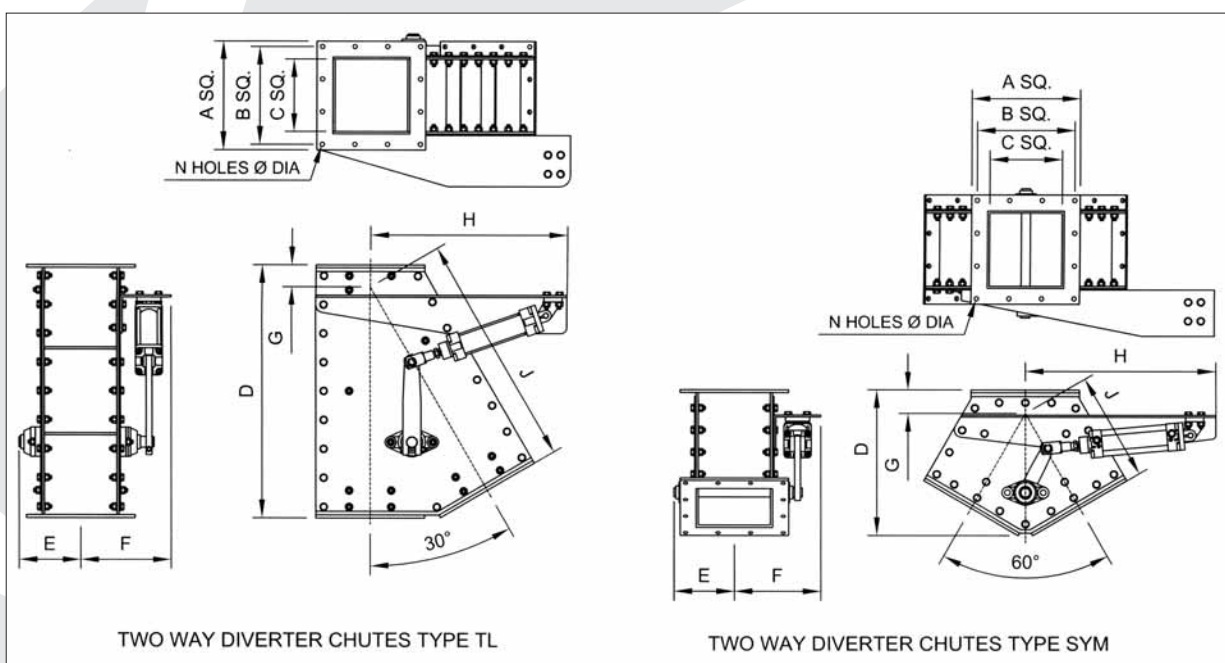




Bulkmatic Two-Way and Three-Way Flap Type Diverter Chutes are manufactured with pneumatic actuators as standard. Motorised units also available on request. Cylinder mounted limit switches can be fitted as optional extras.

Valve options include stainless steel construction and custom outlet angles and flanges as well as fitted abrasion resistant liners.

Standard sizes include: 100, 150, 200, 250, 300, 350, 400, 500 and 600. Other sizes manufactured on request.

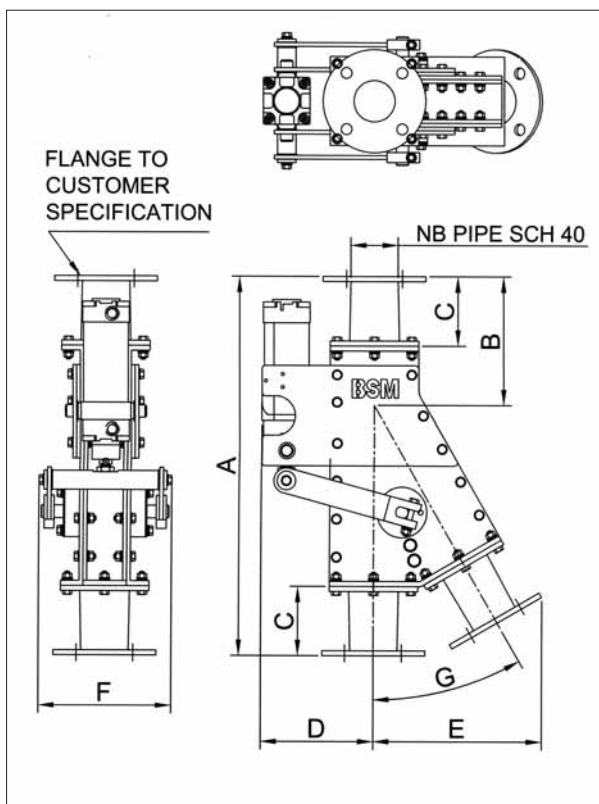


Diverter Chutes - Flap Type Pneumatic Cylinder Operated

UNIT NO.	A	B	C	D	E	F	G	H	J	N	DIA	WEIGHT kg
DC-0100-P-SYM	195	1x165=165	100	254	120	180	45	440	185	4	10	45
DC-0150-P-SYM	250	2x105=210	150	329	145	205	50	440	250	8	10	50
DC-0200-P-SYM	300	3x90=270	200	400	170	240	65	530	300	12	12	65
DC-0250-P-SYM	355	3x105=315	250	472	195	265	80	590	350	12	12	80
DC-0300-P-SYM	405	3x125=375	300	538	225	315	90	715	400	12	14	90
DC-0350-P-SYM	440	3x135=405	350	610	245	345	110	705	450	12	14	110
DC-0400-P-SYM	510	3x155=465	400	684	285	390	115	800	510	12	14	115
DC-0500-P-SYM	610	4x142=568	500	792	335	440	120	900	600	14	14	120
DC-0600-P-SYM	730	4x170=680	600	929	385	490	140	875	700	16	18	140
DC-0100-P-TL	195	1x165=165	100	476	120	165	35	450	452	4	10	55
DC-0150-P-TL	250	2x105=210	150	600	145	205	47	495	565	8	10	70
DC-0200-P-TL	300	3x90=270	200	697	170	250	60	545	648	12	12	95
DC-0250-P-TL	355	3x105=315	250	830	195	295	81	640	761	12	12	120
DC-0300-P-TL	405	3x125=375	300	934	235	315	90	655	856	12	14	145
DC-0350-P-TL	440	3x135=405	350	1040	260	345	105	750	951	12	14	170
DC-0400-P-TL	510	3x155=465	400	1203	285	370	120	860	1102	12	14	190
DC-0500-P-TL	610	4x142=568	500	1448	340	420	150	980	1321	16	14	220
DC-0600-P-TL	730	4x170=680	600	1728	385	470	180	1105	1575	16	18	250

Bulkmatic Two-Way Flap Type Diverter Valves are manufactured with pneumatic actuators as standard.

The inlet and outlet ports are standard sized nominal bore pipes with standard flanges. The diverting element is a wear resistant flap with a sandwiched Vulkollan rubber sealing plate. The flap type diverter valve is ideally suited for lean to medium phase pneumatic conveying systems and should preferably be installed towards the end of a conveying line.



The valve can be actuated while material is being conveyed. This allows faster, more efficient changeovers without the need to shut down the pneumatic conveying system before activating the diverter. Cylinder mounted limit switches can be fitted as optional extras. Valve options include stainless steel construction and custom pipe outlet angles and flanges.

Standard sizes include: NB50, NB65, NB80, NB90, NB100, NB125 and NB150. Other sizes manufactured on request.

Diverter Valves - Flap Type Pneumatic Cylinder Operated										
UNIT NO.	NB		A	B	C	D	E	F	G	WEIGHT kg
DVF-0050-PC	50	2	477	147	80	150	230	195	30°	10
DVF-0065-PC	65	2 1/2"	600	205	110	155	270	217	30°	13
DVF-0080-PC	80	3"	600	205	110	155	277	217	30°	15
DVF-0090-PC	90	3 1/2"	700	225	110	190	330	240	30°	25
DVF-0100-PC	100	4"	700	225	110	190	330	240	30°	29
DVF-0125-PC	125	5"	800	206	110	270	407	320	30°	45
DVF-0150-PC	150	6"	800	206	110	270	418	320	30°	55



Bulkmatic Pot Type Diverter Valves are used in higher pressure applications i.e. for diverting conveying streams on a dense phase conveyor and in applications where the branch conveying line needs to be 100% sealed. Bulkmatic can manufacture the branch angles to suit customer requirement. Standard angles are 30° and 45°.

A very useful application is the staggered outlet which has a slightly deeper “pot” but allows the diverting of a number of horizontal conveying lines with the diverted line offset to the horizontal lines thus ensuring that the lines do not clash.

The pot type diverters are rated at 3 bar pressure. The ball valves are actuated with Kinetrol rotary pneumatic

actuators that can also be fitted with limit switches to indicate when the ball valves are open or closed. It is advisable to stop the pneumatic conveyor after purging the lines and then switch over before resuming conveying. Pinch valves can also be used in place of the ball valves should the client prefer this.

Note that this type of diverter tends to accumulate some product in the dead pot space so they cannot be used where product cross-contamination is an issue or in food product applications where the lines must be completely clean after purging.

Wear is reduced in the diverter as the material that accumulates in the “pot” generates its own wear lining.

Material of manufacture can be mild or stainless steel. For abrasive applications Bulkmatic recommends ceramic lining on the inside of the pot. Sizes are available to suit standard NB pipe diameters with special diameters available on request. Mounting brackets are supplied attached to the rear of the unit. The cover is removable for maintenance and inspection purposes.





The rotating chute is a wear part on the diverter and is replaceable. The inlet and outlet chutes can be lined with ceramic for use with abrasive materials.

All parts are precision lasercut ensuring a quality unit where replacement parts fit first time. The diverter valve must be mounted in a vertical position as shown.

Standard material of manufacture is mild steel. Stainless steel 304 or 316 units can be supplied for food grade applications. Optional extras include customer specific flanges on inlet and outlet pipes and ceramic wear liners. Sizes up to 1000NB have been manufactured.

Standard sizes include: 100NB, 125NB, 150NB, 200NB and 300NB. Other sizes and configurations are supplied on request.

Bulkmatic Rotary type multi-port Gravity Diverter Valves are available with a single inlet and between two and six outlets depending on customer requirements. They are generally used for diverting material streams that are flowing by means of gravity.

An internal rotating chute is used to divert the material from one inlet to the selected outlet. A motor is used in conjunction with limit switches to ensure that the rotating chute stops at the selected outlet. These types of diverters are often used to feed grain from a bucket elevator outlet to multiple silos.



Bulkmatic Rotary type multi-port Diverter Valves are available with a single inlet and between two and six outlets depending on customer requirements. They are generally used for diverting conveying streams on dilute phase conveying systems. Machined and sandwiched HDPE seal plates ensure a positive seal at both ends of the diverter and prevent leakage of material and air between the barrel and the end flange plates. These units are suited for installation at the start of a conveying line and can also be used in reverse where different conveying streams need to convey to one destination. The unit is designed with limit switches fitted to the barrel.

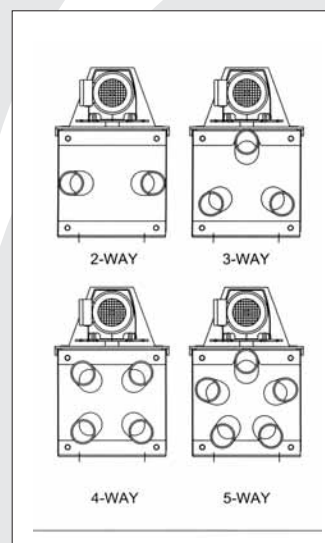
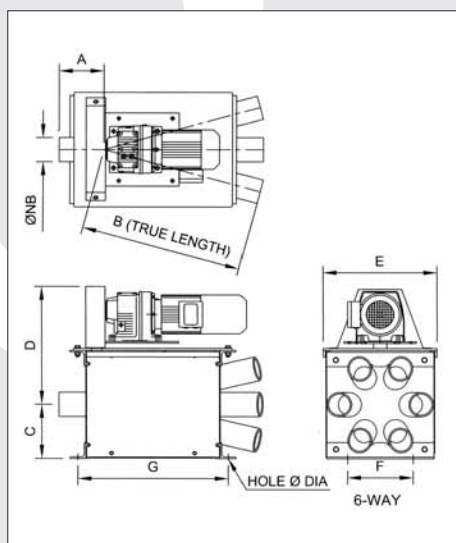
Together with a brake motor these are used to sense and position which outlet pipe the barrel is rotated to. The barrel and seal plates are replaceable when worn.

All parts are precision lasercut ensuring a quality unit where replacement parts fit first time. The diverter valve can be mounted in a vertical or horizontal position depending on the application. To prevent undue pipe stresses from being transferred to the diverter, installation should be done with flexible couplings.

Standard material of manufacture is mild steel. Stainless steel 304 or 316 units can be supplied for food grade applications. Optional extras include customer specific flanges on inlet and outlet pipes.



Standard sizes include: 65NB, 80NB, 100NB, 125NB and 150NB. Other sizes and configurations are supplied on request.



Diverter Valves - Rotary Motorised

UNIT NO.	NB		A	B	C	D	E	F	G	ØDIA	POWER kW	WEIGHT kg
DVR-050-M	50	2	170	537	200	430	425	244	510	12	0.37	80
DVR-065-M	65	2 1/2"	168	600	200	440	425	244	560	12	0.55	120
DVR-080-M	80	3"	168	600	200	440	425	244	560	12	0.55	160
DVR-100-M	100	4"	175	688	250	490	525	320	650	12	0.75	200
DVR-125-M	125	5"	211	943	325	600	685	350	856	12	0.75	290
DVR-150-M	150	6"	211	903	320	590	655	350	818	12	1.10	330
DVR-200-M	200	8"	165	1130	390	670	800	605	1030	12	1.50	450



Bulkmatic Dosing Screws are manufactured to suit customer feed requirements. The units can be supplied as volumetric feeders where a variable speed drive is used to change the dosing rate. Alternatively loadcells can be integrated into the

system to provide accurate loss in weight feed of material. For extreme turndown ratios the electric drive motor can be supplied with a cooling fan.

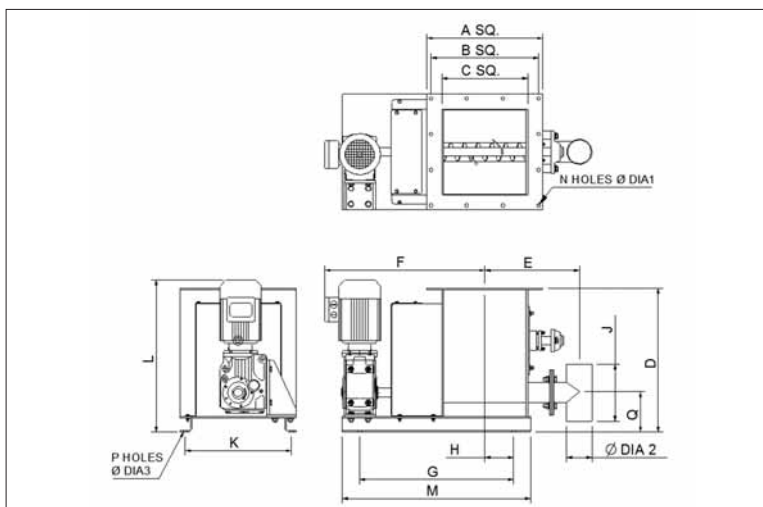
A horizontal paddle above the dosing screw ensures that the material is evenly fed into the dosing screw. This allows accurate feeding of the most difficult materials. Paddle types are selected according to the material fed through the dosing screw.

On the standard version the paddle is driven via the screw shaft with a chain and chain tensioner. Alternatively the paddle shaft and screw shaft can be driven independently by two geared motors.

Dosing screws can be fitted with manual dump hoppers or the inlet hopper sized and designed for automatic refilling – either by using level sensors to control the head of material or by using the integrated loadcells on the loss in weight system.

Both the driven and non-driven ends of the paddle and the driven end of the dosing screw are fitted with stuffing glands to ensure a dust tight sealing arrangement. The outboard bearings are mounted on standoffs to allow easy access to the stuffing gland while the bearings on the driven end are housed under the gear and chain guard.

Standard outlet sizes include:
40NB, 65NB, 80NB and 100NB.
Other sizes and configurations
are available on request.



Dosing Screws

UNIT NO.	A	B	C	D	E	F	G	H	N	DIA1	DIA2	J	K	L	M	P	Q	DIA3	POWER kW	WEIGHT kg
DS-040	405	375	325	503	310	560	537	100	12	14	60,32	100	370	535	657	4	141	12	0,55	120
DS-065	405	375	325	503	330	560	537	100	12	14	88,9	150	370	535	657	4	138	12	0,55	135
DS-080	405	375	325	503	330	560	537	100	12	14	114,3	200	370	535	657	4	130	12	0,55	145
DS-100	405	375	325	503	350	560	537	100	12	14	141,3	200	370	535	657	4	130	12	0,75	170

Bulkmatic Drum Tippers are designed and manufactured to suit customer specific requirements. The units can be supplied with various actuation options. The tipping action can be generated by electric motor, linear motor or pneumatic rotary or linear actuator.

The clamping device is designed so that the system is fail safe and interlocking sensors are used to ensure that the unit does not tip if the drum is not secure or the operator has not left the tipping area. Drum tippers are particularly suited to applications where hazardous powdered or granular materials are to be discharged from drums into a process. Very often drums with hazardous or poisonous material are



Example of a custom built drum tipper for discharging cardboard drums filled with enzyme granules



fitted with plastic liners for additional protection. These liners prevent the use of a vacuuming system as the liners would quickly block the vacuum nozzle. Integrated dust control is used to prevent emissions of potentially hazardous dust.

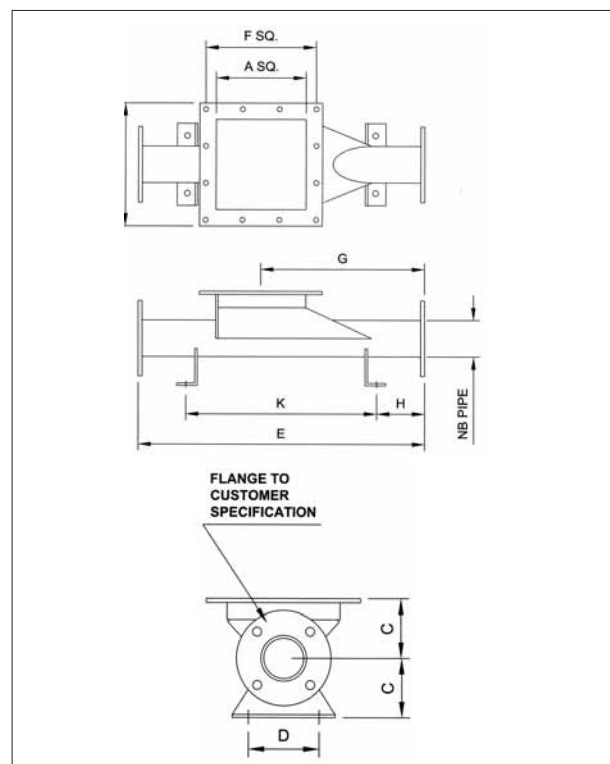
Tippers are generally designed to tip the drum only. In applications where larger, heavier drums are handled, a complete pallet with the drum standing on it can be tipped. This removes the need to manually manhandle the drum into the tipper and allows for safer and more ergonomically acceptable working conditions.



Bulkmatic Feeding Tees are designed for feeding dry bulk materials into pneumatic conveying systems. The design is based on over 25 years of experience in the pneumatic conveying industry. The feeding tee configuration has recently been optimised on a test rig to obtain a minimum of pressure drop across the feeding tee. Special design features ensure that material is not blown back against the front casing of the feed equipment. The feeding tees are available in a 'standard' and 'heavy' version. The standard version is used for non-abrasive or lightly abrasive materials while the ceramic lined and longer 'heavy' version is designed for use with medium to highly abrasive materials. Optional extras include rubber linings. Special units are available with wear back channels and ceramic lining for abrasive materials.

The units can also be supplied without the flange to be fitted into systems with quick-release pipe connection clamps.

Standard flange sizes to fit rotary vane feeders and flap valves: 150, 200, 250, 300, 350 and 400. Standard pipe diameters: NB50, NB80, NB100, NB125, NB150 and NB200. Round inlets and other sizes on request.



Feeding Tees																	
UNIT NO.	NB SCH 40		A	B	C	D	E STD	E HEAVY	F	G STD	E HEAVY	H STD	H HEAVY	K	N	WEIGHT kg STD	WEIGHT kg HEAVY
FT-0150-050	50	2"	170	250	115	140	700	700	2x105=210	350	350	125	125	125	8	15	21
FT-0150-065	65	2 1/2"	170	250	115	140	700	700	2x105=210	350	350	125	125	125	8	16	23
FT-0150-080	80	3"	170	250	115	140	700	900	2x105=210	350	550	125	325	325	8	17	25
FT-0150-100	100	4"	170	250	115	140	700	1000	2x105=210	350	650	125	425	425	8	18	30
FT-0200-065	65	2 1/2"	220	300	115	140	700	900	3x90=270	400	600	120	320	320	12	19	29
FT-0200-080	80	3"	220	300	115	140	700	900	3x90=270	400	600	120	320	320	12	20	32
FT-0200-100	100	4"	220	300	115	140	700	1000	3x90=270	400	700	120	420	420	12	22	36
FT-0250-080	80	3"	275	355	150	140	750	900	3x105=315	500	650	150	300	300	12	25	38
FT-0250-100	100	4"	275	355	150	160	750	1000	3x105=315	500	750	150	400	400	12	28	41
FT-0250-125	125	5"	275	355	150	220	750	1100	3x105=315	440	850	150	500	500	12	30	43
FT-0300-100	100	4"	325	405	150	160	900	1300	3x125=375	500	900	220	620	620	12	35	64
FT-0300-125	125	5"	325	405	150	220	900	1300	3x125=375	500	900	220	620	620	12	39	68
FT-0300-150	150	6"	325	405	150	220	900	1500	3x125=375	550	1100	220	820	820	12	42	75
FT-0350-125	125	5"	360	440	150	220	1000	1500	3x135=405	550	1050	250	750	750	12	45	105
FT-0350-150	150	6"	360	440	150	220	1000	1500	3x135=405	550	1050	250	750	750	12	49	109
FT-0400-125	125	5"	410	510	150	220	1000	1500	3x155=465	580	1080	180	680	680	12	55	123
FT-0400-150	150	6"	410	510	150	220	1000	1500	3x155=465	580	1080	180	680	680	12	58	126
FT-0400-200	200	8"	410	510	180	220	1000	1800	3x155=465	580	1380	180	980	980	12	62	130



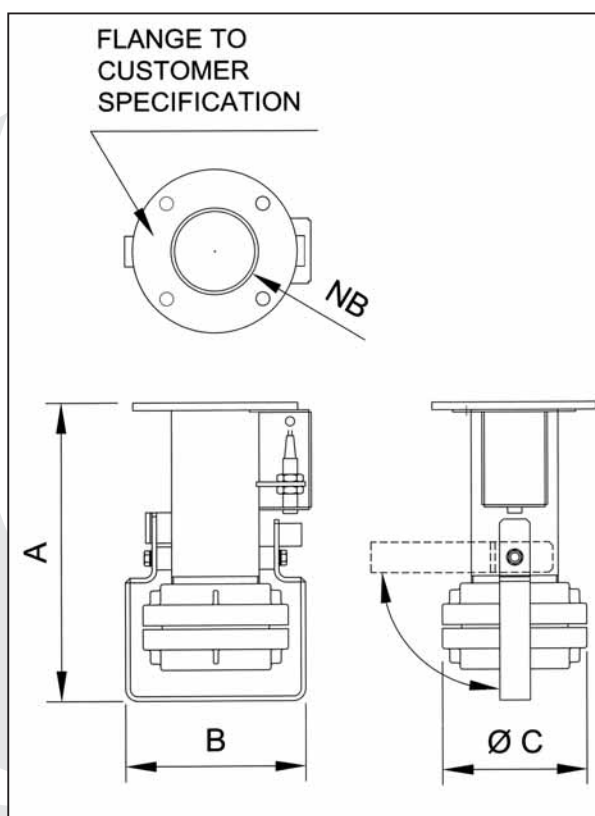
Bulkmatic Filling Pipe Assemblies are used to secure the filling pipe of a silo from unauthorized access. An integrated limit switch can be used to sense when a filling hose from a bulk tanker is connected to the filling pipe so that the reverse jet pulse filter on the silo or bin can be started. A standard padlock can be used to lock the bracket in a closed position. Precision lasercut and bent sections are used for a quality assembly. The Storz coupling is a standard pressure certified 100NB coupling fitted with a blank cap.

Coupling seals are replaceable and the blank cap ensures that the pipe is sealed airtight between filling operations. A chain fitted to the blank cap ensures that the cap is not lost while filling the silo.

Standard flange is a SANS 1123/1000/3 flange. Other flanges can be supplied on request.

Material of manufacture is mild steel. Stainless steel 304 or 316 units can be supplied for food grade applications.

Standard size is: 100NB Storz coupling with SANS 1123/1000/3 flange. Other sizes and configurations are supplied on request.



Filling Pipe Assemblies

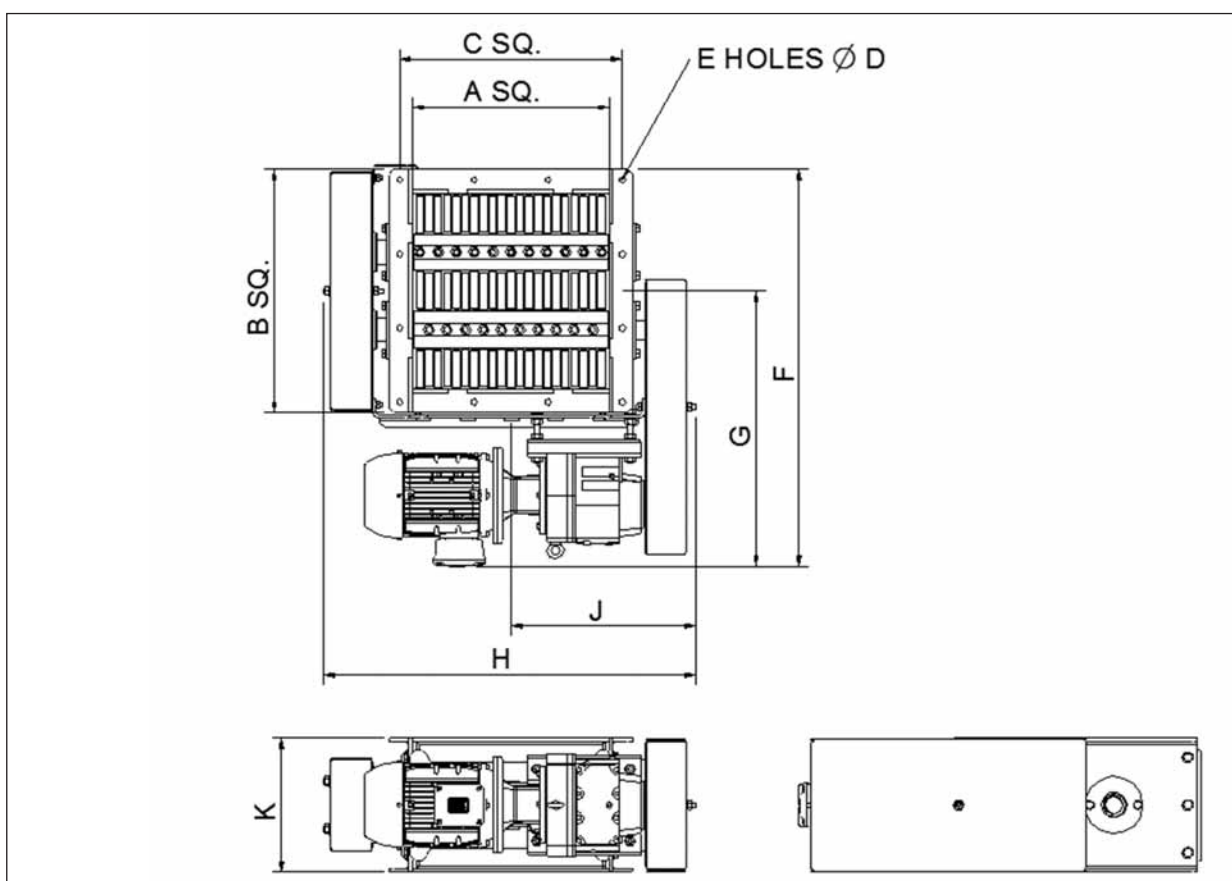
UNIT NO.	A	B	C	NB	WEIGHT kg
FPA -0100	393	236	190	100 4"	15



Bulkmatic Finger Crushers are designed to break up lumpy agglomerated materials. Typically these are installed beneath a bulk bag unloader. When bulk bags are transported or stored some materials will consolidate and lumps may form under specific conditions. These lumps need to be broken up before the material is used in a downstream process.

The unit can be supplied in painted mild steel or as an alternative supplied in stainless steel 304 or 316.

Standard sizes include: 200, 250, 300, 350 and 400. Other sizes manufactured on request.



Finger Crushers												
UNIT NO.	A	B	C	ØD	E	F	G	H	J	K	kW	WEIGHT kg
FC-0200	220	300	3x90=270	12	12	560	405	490	255	180	1,1	100
FC-0250	275	355	3x105=315	12	12	615	435	560	285	180	1,1	121
FC-0300	325	405	3x125=375	14	12	670	460	620	310	180	1,1	162
FC-0350	360	440	3x135=405	14	12	725	500	670	335	240	1,5	170
FC-0400	410	510	3x155=465	14	12	840	575	780	390	280	1,5	205

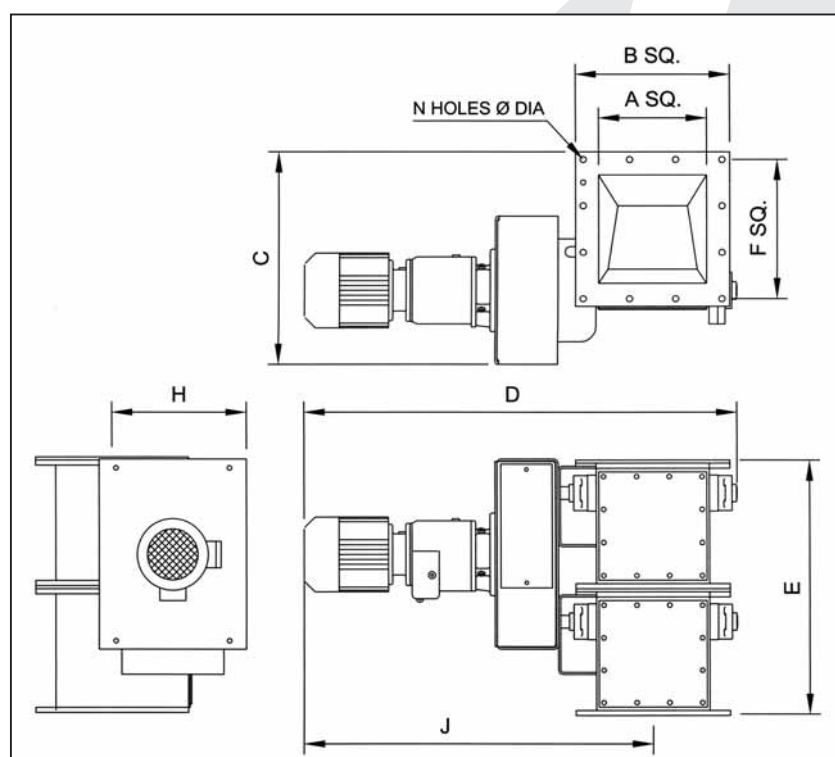
The inlet ports of the **Bulkmatic** Double Motorised Flap Valves are generously sized with steeper inlet angles than other valves available. This bigger

opening allows better gravity flow with less bridging resulting in more efficient operation.

The valves are supplied with "wear resistant" chutes and flaps as standard.

The Motorised flap valve uses a conventional geared motor to drive the cam mechanism. This allows the unit to open and close in a controlled sequence to ensure effective sealing. The closing phase is controlled by an independent spring for smooth running and positive flap sealing.

Valve options include stainless steel construction, high temperature construction, rubberized flaps, stuffing box shaft seals or standard lipped seals.



Single and Double Gravity Flaps are also available in all the standard sizes.

Standard sizes include: 200, 250, 300, 400, 500 and 600.
Other sizes manufactured on request.

Double Flap Valves – Motorised

UNIT NO.	DRIVE-kW	A	B	C	D	E	F	N	DIA	H	J	WEIGHT kg
DFV-0200-M-L	0.37	200	300	420	900	500	3x90=270	12	12	270	680	90
DFV-0250-M-L	0.37	250	355	500	955	600	3x105=315	12	12	325	707	125
DFV-0300-M-L	0.37	300	405	570	1020	700	3x125=375	12	14	370	738	160
DFV-0400-M-L	0.37	390	510	730	1140	900	3x155=465	12	14	475	865	300
DFV-0500-M-L	0.55	500	610	1110	1420	1100	4x142=568	16	14	585	1037	450
DFV-0600-M-L	0.75	600	730	1320	1560	1300	4x170=680	16	18	704	1145	650

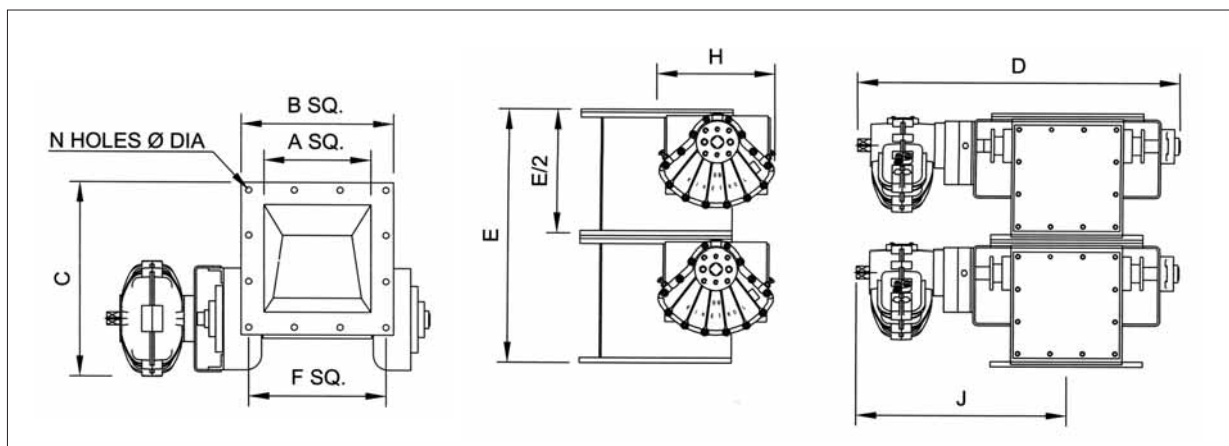
The inlet ports of the **Bulkmatic** Double Pneumatic Flap Valves are generously sized with steeper inlet angles than other valves available. This bigger opening allows better gravity flow with less bridging resulting in more efficient operation. The valves are supplied with "wear resistant" chutes and flaps as standard.

The Pneumatic operated valve uses Kinetrol pneumatic actuators resulting in a much smaller footprint and smoother operation compared to valves using the more conventional linear pneumatic cylinders. By fitting a timer device the valve can be controlled exactly to your required timing cycle. This can result in significant savings in energy and air.

Valve options include stainless steel construction, high temperature construction, strengthened casings, stuffing box shaft seals or standard lipped seals and various timer devices.



Standard sizes include: 200, 250, 300, 400, 500 and 600. Other sizes manufactured on request.



Double Flap Valves – Pneumatic

UNIT NO.	A	B	C	D	E	F	N	DIA	H	J	WEIGHT kg
DLFV-0150-P-H	170	250	335	520	400	2x105=210	8	10	210	370	50
DFV-0200-P-H	200	300	383	583	500	3x90=270	12	12	235	414	90
DFV-0250-P-H	250	355	438	625	600	3x105=315	12	12	260	421	125
DFV-0300-P-H	300	405	485	686	700	3x125=375	12	14	282	464	160
DFV-0400-P-H	400	510	642	888	900	3x155=465	12	14	346	605	300
DFV-0500-P-H	500	610	743	993	1100	4x142=568	16	14	425	664	470
DFV-0600-P-H	600	720	950	1400	1300	4x170=680	16	18	585	920	660



Pneumatic

Bulkmatic Flow Control Gates are manufactured using the latest technology in laser cutting, water jetting and welding. The flow control gates are designed for accurate control of the flow of abrasive, powdered materials. In particular they can be mounted in-line with airslides.

An integrated aeration pad at the bottom of the flow control gate assists the flow of material where the units are installed in-line with air slides. A positioner can be used to position the vee-notch drum via a 4-20mA input signal. As an optional extra position feedback can also be included.

A manual override is available to position the gate should the air or power supply to the actuator fail. Specially selected non-fray sealing material is used to ensure that there is a positive seal between drum and casing at all times. The drive shaft is protected from wear by means of a ceramic liner sleeve. Standard material of manufacture is mild steel or stainless steel depending on customer requirements.

Options include a three position actuator or a fail safe spring return actuator.

Standard sizes include: 200, 300, 400, 500, and 600. Other sizes and configurations are supplied on request.



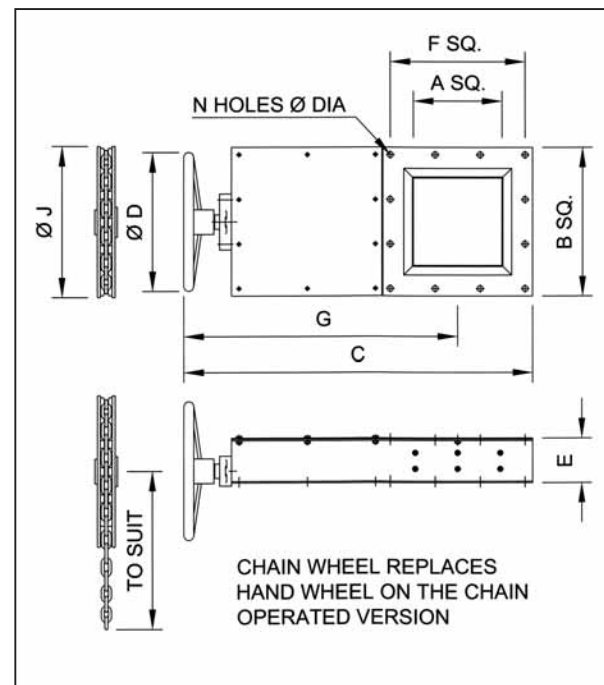
Motorised

Bulkmatic Knife Gates are manufactured in two basic forms - "Hand operated" or "Chain Wheel operated". Laser profiling results in a light but robust knife gate. The inlet ports are generously sized with a protective cover shroud insert. This shroud ensures that contact of material with the sealing strips above the gate blade is minimised reducing wear and maintenance. The outlet port opening is larger than the inlet ensuring minimal chances of material hangup.

The design of the stuffing box is such that the packing can be changed with the knife gate blade in position and only the cover plate removed for access. The Hand Wheel operated valve uses a conventional hand wheel while the Chain Wheel operated version is ideal for hand operation where the gate is at an elevated position. Limit or proximity switches can be fitted as optional extras.

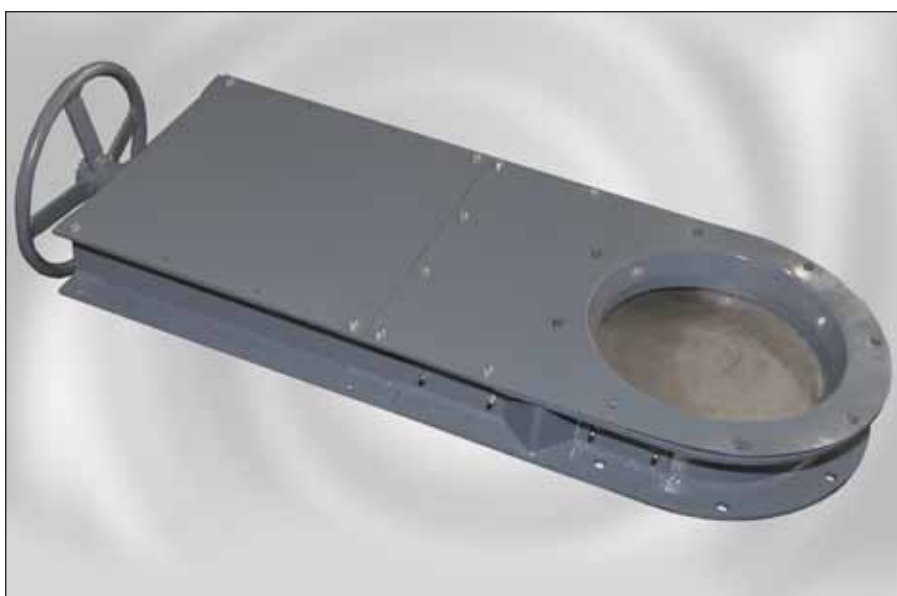
Knife Gates can also be supplied in stainless steel.

Standard sizes include: 150, 200, 250, 300, 350, 400 and 500. Other sizes manufactured on request.



Knife Gates - Square: Hand or Chain Wheel Operated

UNIT NO.	A	B	C	D	E	F	G	N	J	DIA	WEIGHT kg
KG-0150-H/C	165	250	600	300	100	2x105=210	475	8	245	10	16
KG-0200-H/C	215	300	700	300	100	3x90=270	550	12	245	12	23
KG-0250-H/C	230	355	800	300	100	3x105=315	625	12	245	12	27
KG-0300-H/C	320	405	900	300	100	3x125=375	695	12	245	14	51
KG-0350-H/C	355	440	1005	300	100	3x135=405	785	12	245	14	70
KG-0400-H/C	400	510	1110	400	110	3x155=465	855	12	305	14	95
KG-0500-H/C	500	610	1310	400	110	4x142=568	1005	16	305	14	124

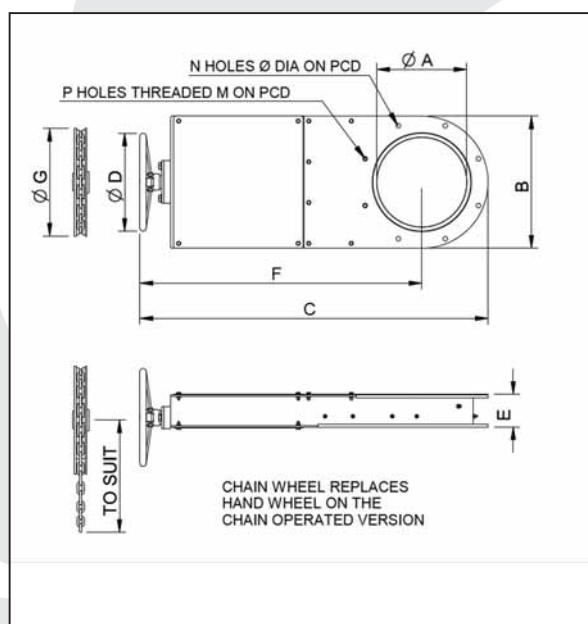


Knife Gates can also be supplied in mild or stainless steel.

Standard sizes include: 150, 200, 250, 300, 350, 400 and 500. Other sizes manufactured on request.

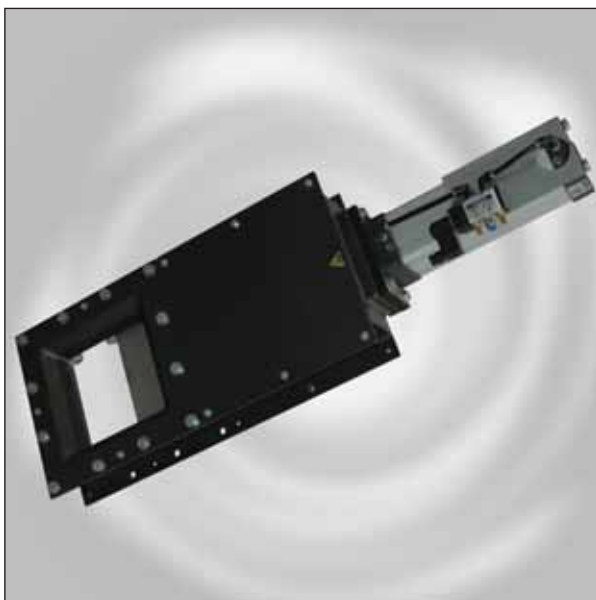
Bulkmatic Round Knife Gates are manufactured in two basic forms – “Hand operated” or “Chain Wheel operated”. Laser profiling results in a light but robust knife gate. The inlet ports are generously sized with a protective wear ring insert. This wear ring ensures that contact of material with the sealing strip above the gate plate is minimized reducing wear and maintenance. The outlet port opening is larger than the inlet ensuring minimal chances of material hangup.

The design of the stuffing box is such that the packing can be changed with the knife gate blade in position. The Hand Wheel operated valve uses a conventional hand wheel while the Chain Wheel operated version is ideal for hand operation where the gate is installed in an elevated position. Limit or proximity switches can be fitted as optional extras.



Knife Gates - Round: Hand or Chain Wheel Operated

UNIT NO.	A	B	C	D	E	F	G	N	DIA	PCD	P	M	WEIGHT kg
KG-R-150-H/C	151	250	680	300	100	555	245	5	12	219	1	M10	19
KG-R-200-H/C	201	300	805	300	100	655	245	5	12	270	2	M10	28
KG-R-250-H/C	253	355	930	300	100	755	245	6	12	315	2	M10	32
KG-R-300-H/C	303	405	1065	300	100	865	245	6	14	375	2	M12	42
KG-R-350-H/C	342	440	1180	300	100	960	245	6	14	405	2	M12	48
KG-R-400-H/C	386	510	1320	400	110	1065	305	6	14	465	2	M12	80
KG-R-500-H/C	486	610	1570	400	110	1265	305	8	14	568	4	M12	86



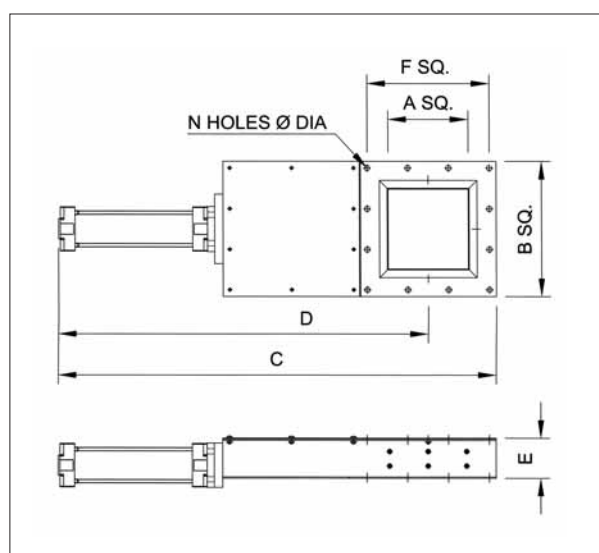
Bulkmatic Pneumatic Knife Gates are ideal for automated applications or as a maintenance gate in hard to reach positions.

Laser profiling results in a light but robust knife gate. The inlet ports are generously sized with a protective cover shroud insert. This shroud ensures that contact of material with the sealing strips above the gate blade is minimised reducing wear and maintenance. The outlet port opening is larger than the inlet ensuring minimal chances of material hangup.

The design of the stuffing box is such that the packing can be changed with the knife gate blade in position and only the cover plate removed for access.

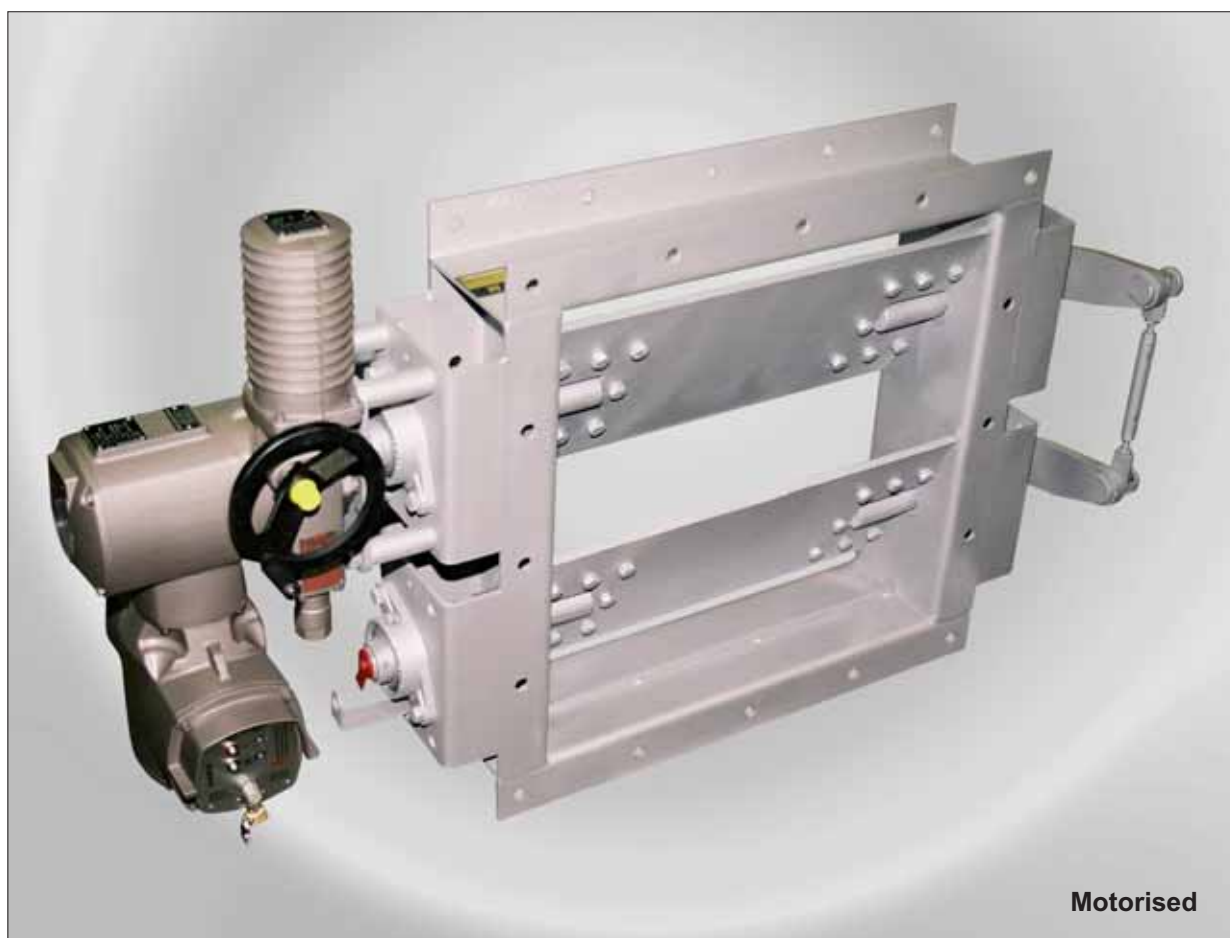
Limit or proximity switches can be fitted as optional extras. For specialised applications a Motorised version is also available. All Knife gates can be supplied in stainless steel.

Standard sizes include: 150, 200, 250, 300, 350, 400 and 500. Other sizes manufactured on request.



Knife Gates - Square: Pneumatic Cylinder Operated

UNIT NO.	A	B	C	D	E	F	N	H	DIA	WEIGHT kg
KG-0150-P	165	250	815	690	100	2x105=210	8	125	10	30
KG-0200-P	215	300	970	825	100	3x90=270	12	175	12	40
KG-0250-P	270	355	1125	950	100	3x105=315	12	230	12	50
KG-0300-P	320	405	1280	1080	100	3x125=375	12	280	14	65
KG-0350-P	355	440	1440	1220	100	3x135=405	12	320	14	85
KG-0400-P	400	510	1615	1360	110	3x155=465	12	365	14	108
KG-0500-P	500	610	1910	1610	110	4x142=568	16	465	14	125

**Motorised**

Bulkmatic Louvre Dampers are available as motorised, pneumatic or hand operated units. They can be supplied with accurate positioning actuators or as a simple open / close configuration. The shaft stubs are bolted to the robust damper blades. This allows the blade to be replaced. The

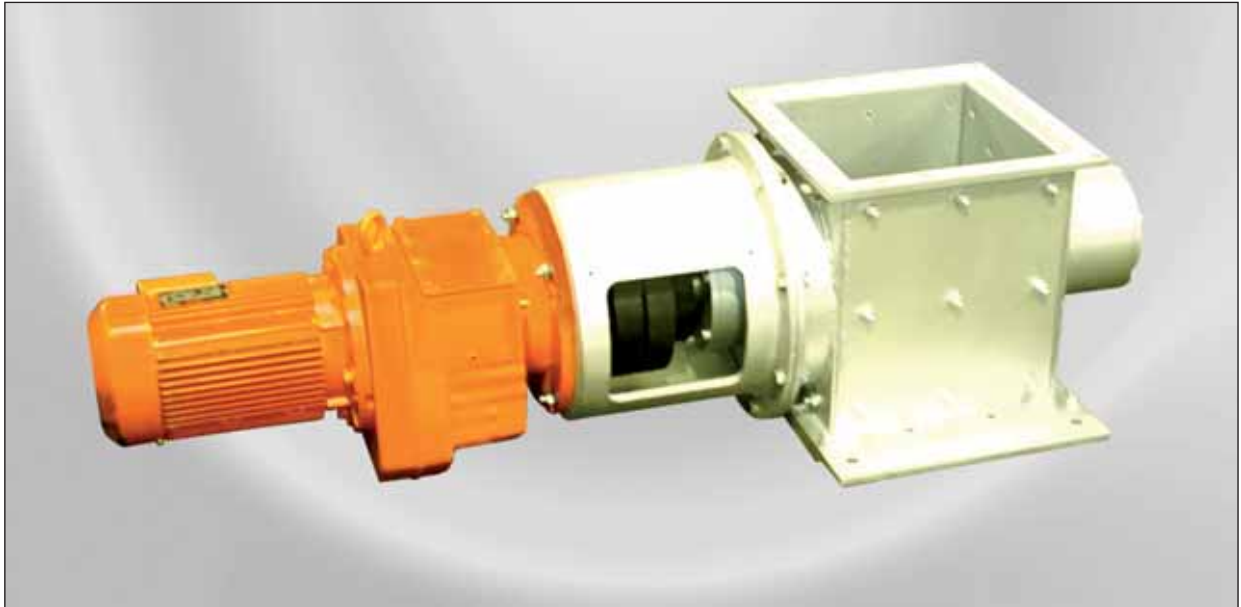
damper blade and casing flanges are lasercut allowing for precision fitting holes and accurate alignment of the shaft stubs.

An adjustable link mechanism allows for synchronisation of the individual blade angles. The shaft stubs are fitted with stuffing glands to seal against a pressure differential where necessary. The shaft stubs are bearing mounted and the non-driven shaft can be fitted with limit switches.

Standard round sizes are also available to match standard nominal bore ducting or pipework but non standard diameters can be manufactured to suit. This is particularly relevant where existing dampers need to be replaced. Material of construction is mild steel. Stainless steel and high temperature versions are available on request.

Standard sizes include: 200, 250, 300, 400, 500, 600, 700 and 800. Other sizes and configurations are supplied on request.

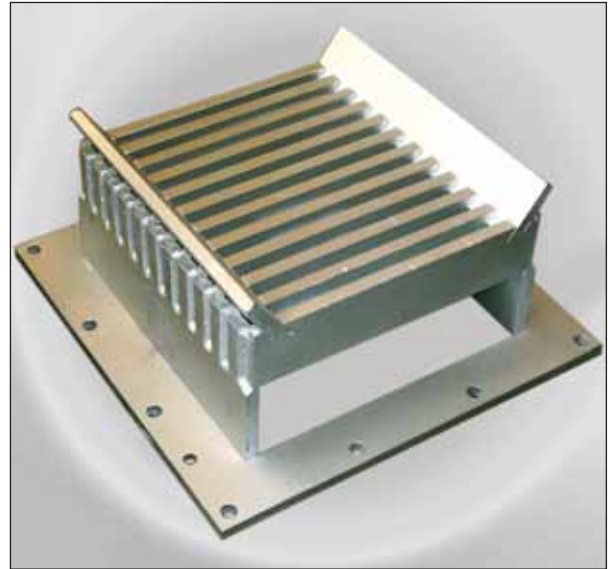
**Hand Operated**



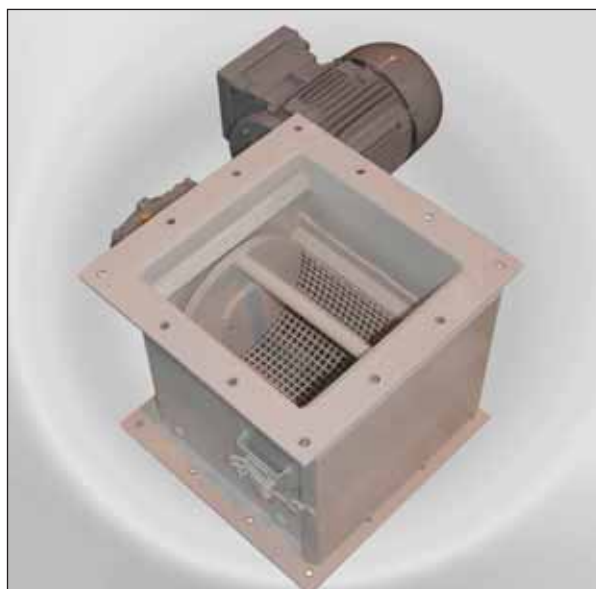
Bulkmatic Lump Breaker flange dimensions and heights are consistent with the standard range of Bulkmatic rotary vane feeders. This allows easy stacking of units to produce the required powder or granule processing configuration. The maximum lump size at the exit is determined by the grid size below the toothed shaft. The grid aperture can be manufactured to customer requirement and is removable from the bottom for maintenance and replacement. A sturdy coupling dampens the shock loading of the gearbox during the lump breaking process.

The Lump Breaker is designed to crush harder lumps such as material that form hard crusts as part of a process or as a result of moisture. The unit is not designed to crush mineral rock. A dedicated crusher should be used for this purpose.

Optional extras recommended on the Lump Breaker is the rotation sensor on the non-driven side of the unit. Standard material of manufacture is mild steel with Hardox or Roqlast teeth, grid and liners. Stainless steel units are also available.



Standard sizes include: 200, 300, 400, 500 and 600. Other sizes manufactured on request.



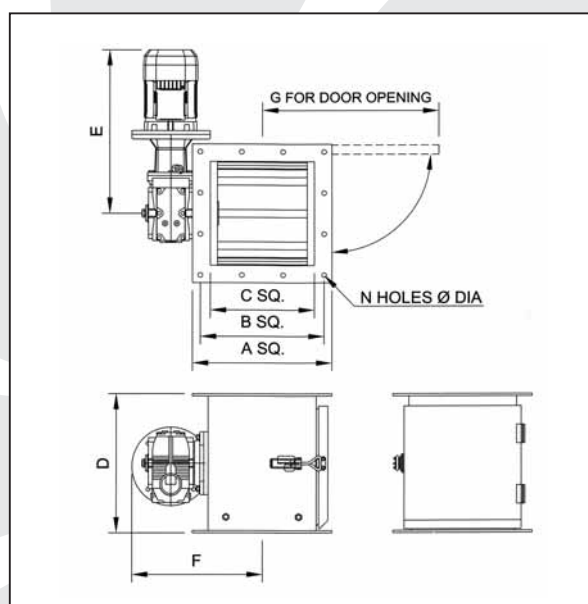
Bulkmatic Lump Sifter flange dimensions and heights are consistent with the standard range of Bulkmatic rotary vane feeders. This allows easy stacking of units to produce the required powder or granule processing configuration. The casing is fitted with a quick release opening door which can be fitted with safety switches.

A rotor runs in a half moon shaped removable grid tray. The maximum lump size at the exit is determined by the grid size. The grid aperture can be manufactured to customer requirement. Material lumps are gently compressed between the round bar paddles and the grid until they break up and fall through the grid aperture.

The Lump Sifter is designed for breaking up soft lumps in situations where material tends to agglomerate during storage. Typical applications are the feed of lumpy material into or out of blenders and processing tanks. Material of manufacture is mild steel. Stainless steel food grade versions are also available. Note that the Lump Sifter is not

designed to crush hard lumps. The Bulkmatic Lump Breaker should be used for this purpose.

Standard sizes include: 200, 250, 300 and 400.
Other sizes manufactured on request.



Lump Sifters

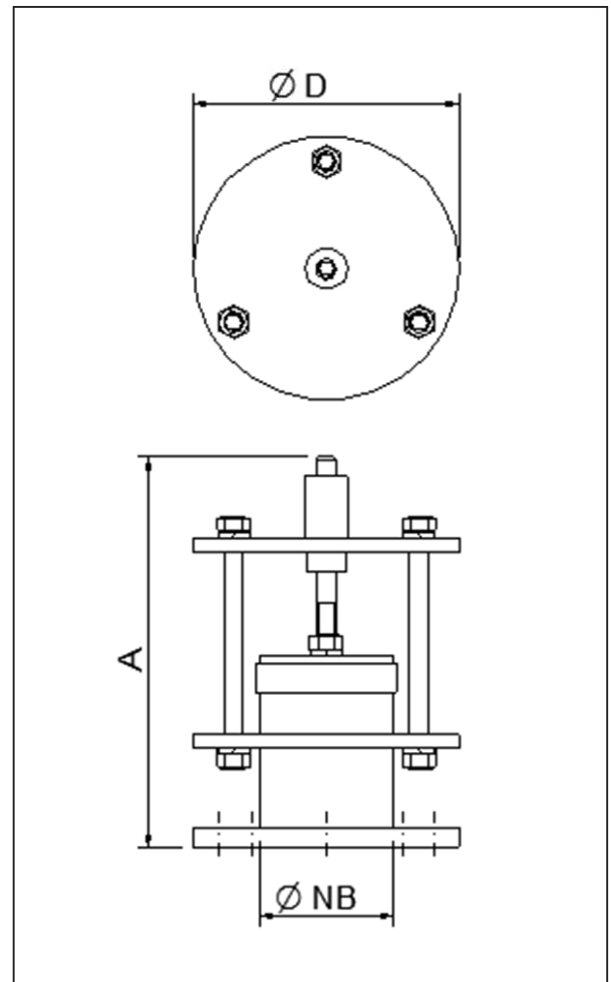
UNIT NO.	DRIVE-KW	A	B	C	D	E	F	G	N	DIA	WEIGHT kg
LS-0200	0.55	300	3x90=270	215	300	290	310	380	12	12	80
LS-0250	0.75	355	3x105=315	265	355	420	335	450	12	12	110
LS-0300	1.10	405	3x125=375	300	405	480	360	515	12	14	180
LS-0400	1.50	510	3x115=465	385	510	610	400	645	12	14	270

Bulkmatic Silo and Bin Overpressure Valves are manufactured using the latest technology in laser cutting, water jetting and welding.

The overpressure valve is a cost effective valve to protect bins and silos from overpressure damage. Typically the valve would be fitted to bins and silos that are fed by a pneumatic conveying line or bulk tanker. The 200NB unit is recommended for silos that are loaded by bulk tankers.

A sealing ring around the bottom perimeter of the weighted cap ensures that water cannot run into the silo during periods of inclement weather. A rubber sealing disc ensures an air tight seal. The overpressure valve is set at 8 kPa pressure. The unit may not be used as a substitute for an explosion panel for potentially explosive products in the bin or silo. Typical material of construction is mild steel. Stainless steel units are also available.

Standard sizes include: 100NB, 150NB and 200NB with a SANS1123/1000/3 flange.



Overpressure Valves – Gravity

UNIT NO.	NB		A	D	Weight kg	Pressure kPa
OPV-0100	100	4"	315	220	100	8
OPV-0150	150	6"	418	285	35	8
OPV-0200	200	8"	418	340	50,5	8



Bulkmatic Paddle Mixers or “Pug Mills” are custom designed to suit client applications using inhouse design software. Paddle Mixers are used for continuous mixing of products.

The paddles are adjustable and fitted with a locking mechanism that prevents accidental rotation of the paddle. This adjustment is used to fine-tune material feed rates and material retention times.

Paddle Mixers can be fitted with spray nozzles for feeding water into the mixer. This is often used on dust suppression or ash conditioning applications.

The drive arrangement is fitted with a flexible coupling to absorb any shock loading and the paddle mixers can be fitted with rotation

sensors on one or both shafts. Both the driven and non-driven ends are fitted with stuffing glands to ensure a dust tight sealing arrangement. The outboard bearings on the non-drive end are mounted on standoffs to allow easy access to the stuffing gland while the bearings on the driven end are housed inside the gearbox. This effectively keeps the main bearings protected from dust by means of an additional set of oil seals.

Standard sizes include: 200, 300, 400, 500, and 600. Other sizes and configurations are supplied on request.



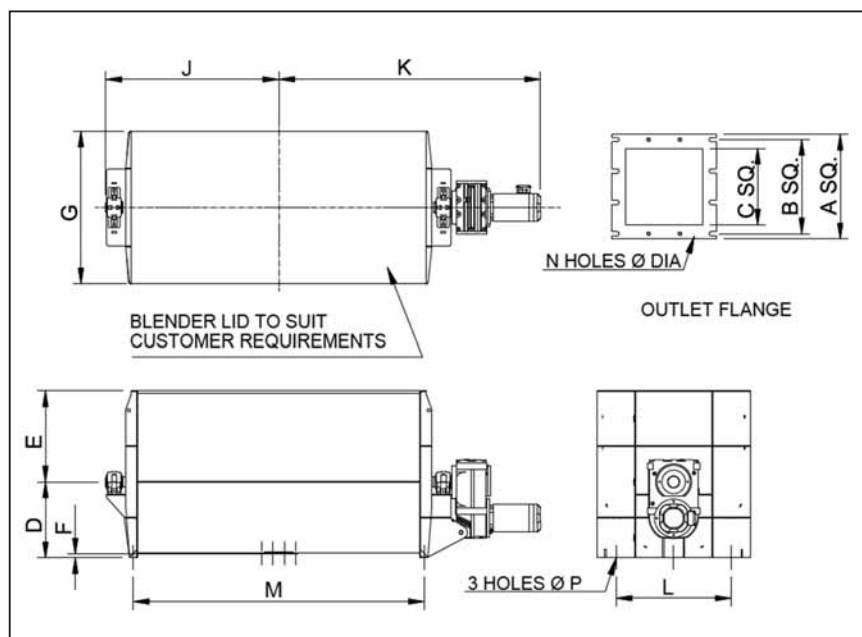
Bulkmatic Ribbon Blenders are manufactured using the “contra-flow” ribbon to ensure gentle and even mixing of product. Ribbon Blenders are primarily used in the food industry but have applications in a diverse spectrum of industry such as blending of cement, fertiliser, grease constituents and plastic masterbatch.

Laser profiling of supports and mounting brackets ensures consistent part size and ensures that drive shaft and ribbon shaft are correctly aligned during assembly. The robust trough is designed for structural rigidity allowing the ribbon blenders to be started in the filled condition without distorting the trough.

For special applications contact Bulkmatic to arrange for blending tests on specific materials. Maintenance is simple as the ribbon shaft can be removed from the trough without opening the bearings, stuffing boxes or removing the drive shaft. Stuffing boxes are fitted with four gland packing layers and can be supplied with air purging on request.

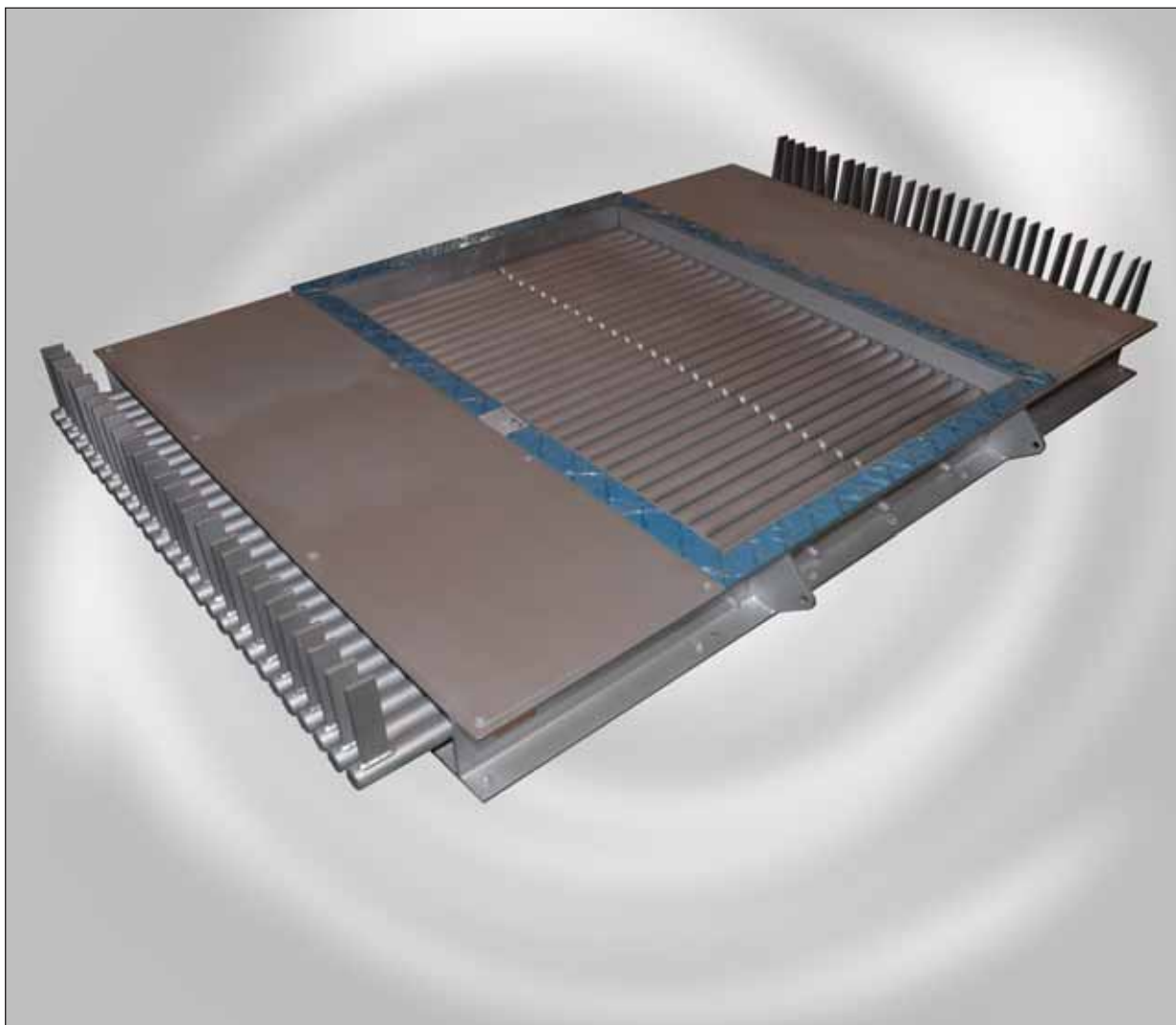
Optional extras include steam jacketing, stainless steel 304 or 316 construction, support stand, loading platform with stair access and pneumatic knife gate for the outlet.

Standard sizes include: 50 litre, 100 litre, 500 litre, 1000 litre, 2000 litre and 2500 litre. Other sizes manufactured on request.



Ribbon Blenders

										K							POWER (kW)		WEIGHT kg	
UNIT NO	VOL (l)	A	B	C	D	E	F	G	J	MIN	MAX	L	M	P	N	DIA	MIN	MAX	MIN	MAX
RB-0050	50	250	2x105=210	170	197	214	20	370	485	770	815	310	710	14	8	10	0,18	0,75	110	120
RB-0100	100	250	2x105=210	170	240	268	20	470	595	910	1020	380	880	14	8	10	0,37	1,50	140	165
RB-0500	500	300	3x90=270	220	393	454	30	770	895	1240	1545	600	1460	14	12	12	2,20	7,50	350	510
RB-1000	1000	300	3x90=270	220	485	572	30	960	1097	1610	1880	750	1835	14	12	12	3,00	15,00	590	830
RB-2000	2000	300	3x90=270	220	597	714	30	1200	1355	2050	2370	900	2280	18	12	12	7,50	30,00	1000	1580
RB-2500	2500	405	3x125=375	325	643	759	30	1290	1515	2270	2520	1000	2480	18	12	14	11,00	37,00	1245	1725



Bulkmatic Rod Gates are used as emergency shutoff gates for bunkers containing lumpy, abrasive material.

The rods are manufactured from EN3 Roundbar. Two holes on the pin insertion side result in a sturdy cantilever support for the pins. A locking pin ensures that the rods cannot be pulled free of the guide holes. This ensures that the rods cannot be lost while the gate is in the fully open position.

The rods are usually knocked into the head of material using a mallet. For large gates a hydraulic cylinder can be used to push the pins into place. A smaller single cylinder is often used for this purpose and a specially designed tray holds the cylinder. The cylinder is moved by hand from one pin to the next.

Standard material of manufacture is mild steel. Other materials of manufacture are available on request. Optional extras include ceramic liners to the sides of the gate.

Standard sizes include: 150, 200, 250, 300, 350, 400 and 500. Other sizes manufactured on request.



Bulkmatic Rotary Vane Feeder Model Square D Type is a low cost direct driven feeder for dust feeding applications. It is specifically designed to feed material from dust collection hoppers and other low pressure applications.

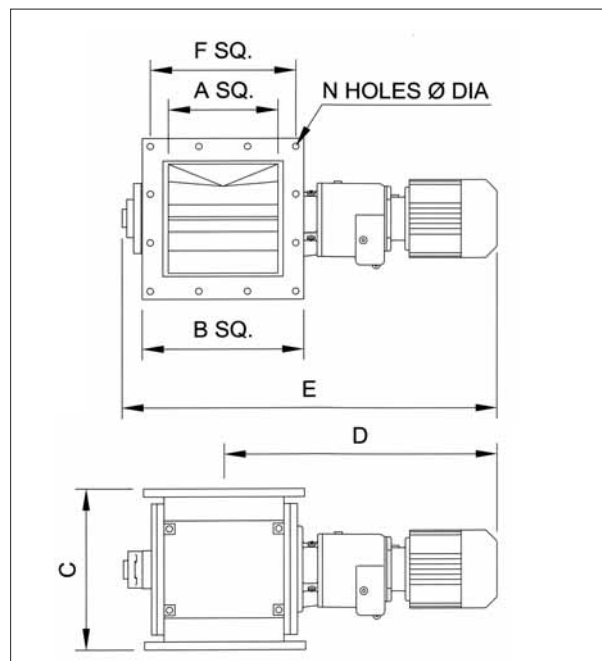
The design includes an impeller which is mounted directly onto the gearbox shaft and an end plate mounted bearing with lip seals on the non-driven side. The inlet ports have “V”s cast into the side wall to create a scissor cutting action between impeller blade and casing.

This ensures smooth rotation without the “chopping effect” experienced with other valves. The result is increased bearing and impeller tip life. The D type valve has a closed end impeller and has adjustable tips fitted as standard. This valve is suitable for applications where the pressure differential is below 30 kPa and the material is non abrasive and free flowing.

Various options are available including different materials of construction such as stainless

steel, soft flexible or hard wearing impeller tips, body venting, inlet scrapers and hard chromed casings.

Standard sizes include: 100, 150, 200, 250 and 300.



Rotary Vane Feeders Square - D Type

UNIT NO.	DRIVE kW	A	B	C	D	E	F	N	DIA	WEIGHT kg
RVF-0150-D	0.25	150	250	250	530	695	2x105=210	8	10	70
RVF-0200-D	0.37	200	300	300	570	760	3x90=270	12	12	69
RVF-0250-D	0.55	250	355	355	660	870	3x105=315	12	12	97
RVF-0300-D	0.75	300	405	405	685	930	3x125=375	12	14	145

Bulkmatic Rotary Vane Feeder Model Round D Type is a low cost direct driven feeder for dust feeding applications. It is specifically designed to feed material from dust collection hoppers and other low pressure applications.

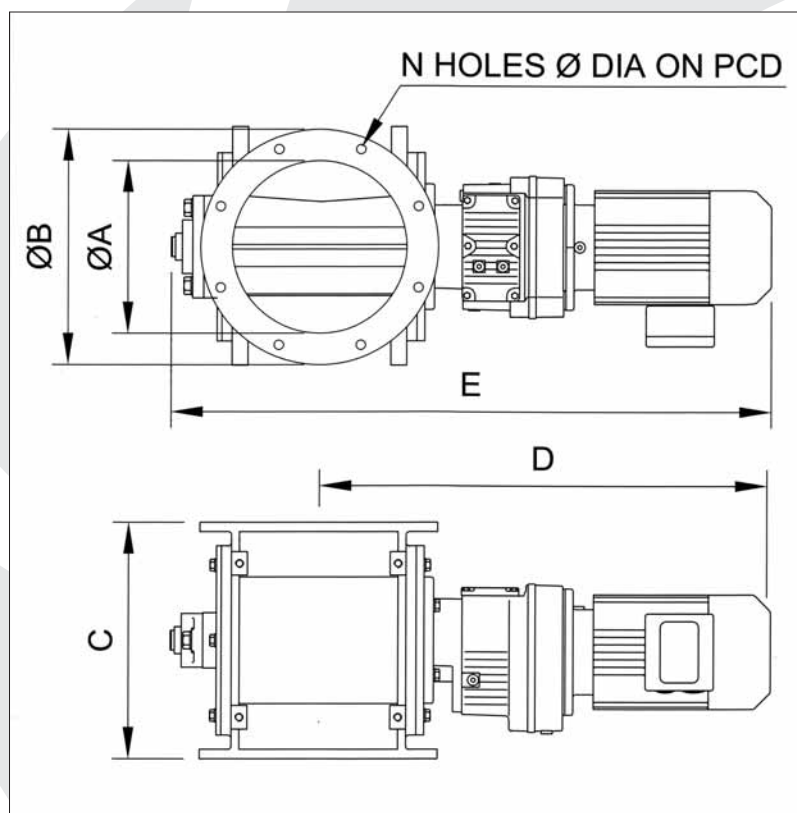
The design includes an impeller which is mounted directly onto the gearbox shaft and an end plate mounted bearing with lip seals on the non-driven side. The inlet ports have “V’s” fabricated into the side wall to create a scissor cutting action between impeller blade and casing.



This ensures smooth rotation without the “chopping effect” experienced with other valves. The result is increased bearing and impeller tip life. The D type valve has a closed end impeller and has adjustable tips fitted as standard. This valve is suitable for applications where the pressure differential is below 30 kPa and the material is non abrasive and free flowing.

Various options are available including different materials of construction such as stainless steel, soft flexible or hard wearing impeller tips, body venting, inlet scrapers and hard chromed casings.

Standard sizes include: 100, 150, 200, 250 and 300.



Rotary Vane Feeders Round - D Type

UNIT NO.	DRIVE kW	A	B	C	D	E	N	DIA	PCD	WEIGHT kg
RVF-R-0150-D	0.25	169	250	250	530	695	6	12	219	70
RVF-R-0200-D	0.37	220	300	300	575	760	8	12	270	69
RVF-R-0250-D	0.55	274	355	355	660	870	8	12	315	97
RVF-R-0300-D	0.75	325	405	405	685	930	8	14	375	145



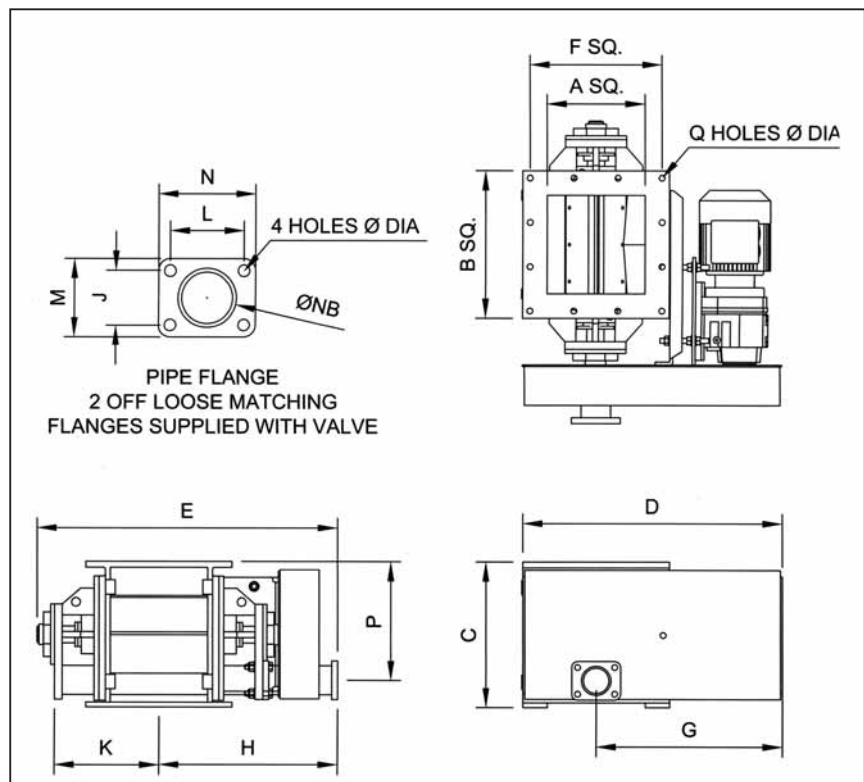
Bulkmatic Blowthrough Rotary Vane Feeders are designed for the pneumatic conveying of products that do not easily vacate the impeller pockets. The inlet and outlet pipe of the blowthrough rotary feeder are designed to clear out the pocket as the impeller rotates into the air stream.

The design includes outboard bearings, machined stuffing boxes and “oversized” impeller shafts. The inlet ports have “V’s” cast into the side wall to create a scissor cutting action between impeller blade and casing. This

ensures smooth rotation without the “chopping effect” experienced with other valves. The result is increased bearing and impeller tip life.

The “BT” type valve has an open ended impeller and has adjustable tips fitted as standard. This valve is suitable for applications where the pressure differential is below 100 kPa and is ideal for use in Pneumatic Conveying Systems and heavy duty applications. Various options are available including different materials of construction such as stainless steel, body venting, inlet scrapers, “hard chromed”, casings, air purged glands and high temperature construction.

Standard sizes include: 200, 250, 300, 400 and 500. Other sizes manufactured on request.



Rotary Vane Feeders - Square BT Type

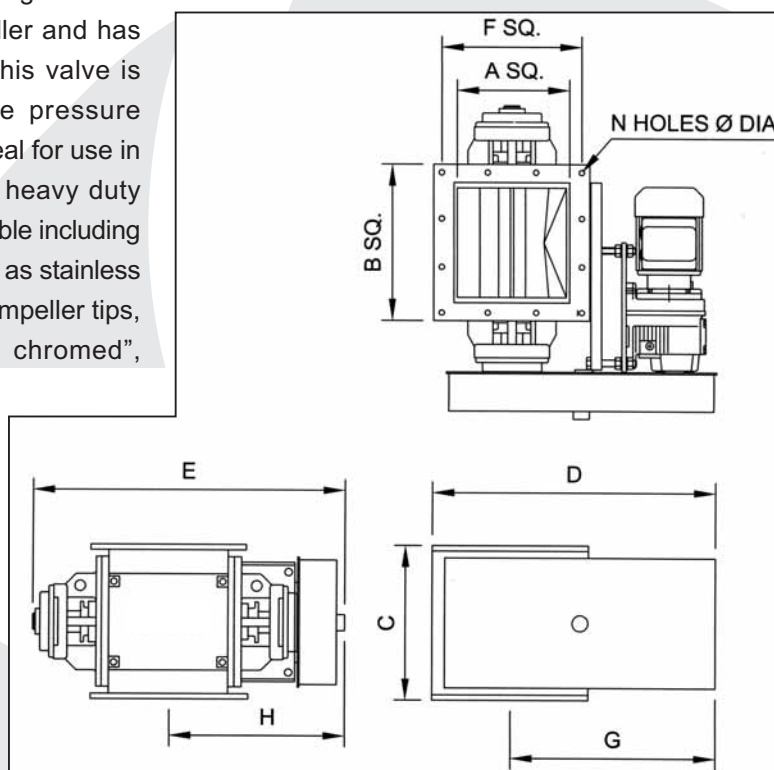
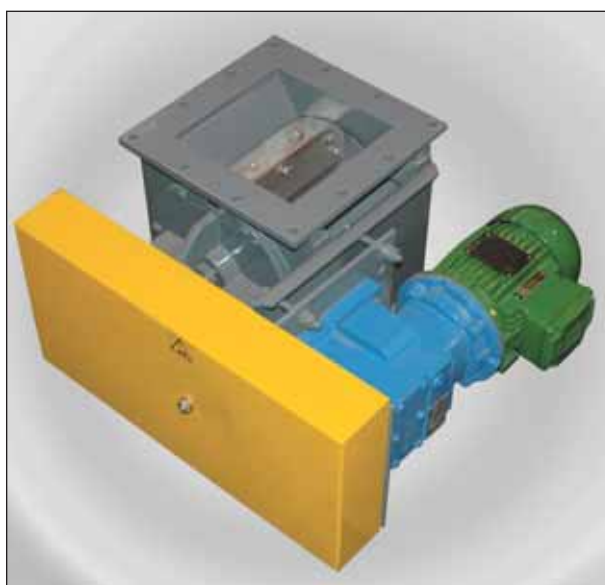
UNIT NO.	DRIVE kW	NB		A	B	C	D	E	F	G	H	K	J	L	M	N	P	Q	DIA	WEIGHT kg
RVF-0200-BT	0.37	50	2"	200	300	300	530	620	3x90=270	380	366	214	56	76	80	100	244	12	12	120
RVF-0250-BT	0.55	80	3"	250	355	355	600	715	3x105=315	420	420	244	68	94	104	122	286	12	12	200
RVF-0300-BT	0.75	100	4"	300	405	405	730	800	3x125=375	525	465	290	92	119	135	145	324	12	14	290
RVF-0400-BT	1.50	125	5"	385	510	510	860	955	3x155=465	605	550	345	110	136	165	168	410	12	14	480
RVF-0500-BT	2.20	150	6"	485	610	610	995	1075	4x142=568	695	622	396	132	163	198	200	490	16	14	620

Bulkmatic Square Rotary Vane Feeders are manufactured in two basic types, Models “H” and “L”. Both designs include outboard bearings, machined stuffing boxes and “oversized” impeller shafts. The inlet ports have “V’s” cast into the side wall to create a scissor cutting action between impeller blade and casing. This ensures smooth rotation without the “chopping effect” experienced with other valves. The result is increased bearing and impeller tip life.

The “L” type valve has a closed end impeller and has adjustable tips fitted as standard. This valve is suitable for applications where the pressure differential is below 30 kPa and the material is non abrasive and free flowing. The “H” type valve has an open ended impeller and has adjustable tips fitted as standard. This valve is suitable for applications where the pressure differential is below 100 kPa and is ideal for use in Pneumatic Conveying Systems and heavy duty applications. Various options are available including different materials of construction such as stainless steel, soft “flexible” or “hard wearing” impeller tips, body venting, inlet scrapers, “hard chromed”, casings, air purged glands and high temperature construction.

Standard sizes include: 150, 200, 250, 300, 350, 400 and 500.

Larger sizes manufactured on request.



Rotary Vane Feeders - Square H/L Type

UNIT NO.	DRIVE kW	A	B	C	D	E	F	G	H	N	DIA	WEIGHT kg
RVF-0150-H/L	0.25	150	250	250	475	508	2x105=210	350	280	8	10	80
RVF-0200-H/L	0.37	200	300	300	560	590	3x90=270	410	335	12	12	110
RVF-0250-H/L	0.55	250	355	355	670	665	3x105=315	490	370	12	12	130
RVF-0300-H/L	0.75	300	405	405	735	760	3x125=375	530	415	12	14	230
RVF-0350-H/L	1.10	350	440	440	765	855	3x135=405	540	465	12	14	285
RVF-0400-H/L	1.50	385	510	510	860	895	3x155=465	600	495	12	14	320
RVF-0500-H/L	2.20	485	610	610	1005	1015	4x142=568	700	565	16	14	530

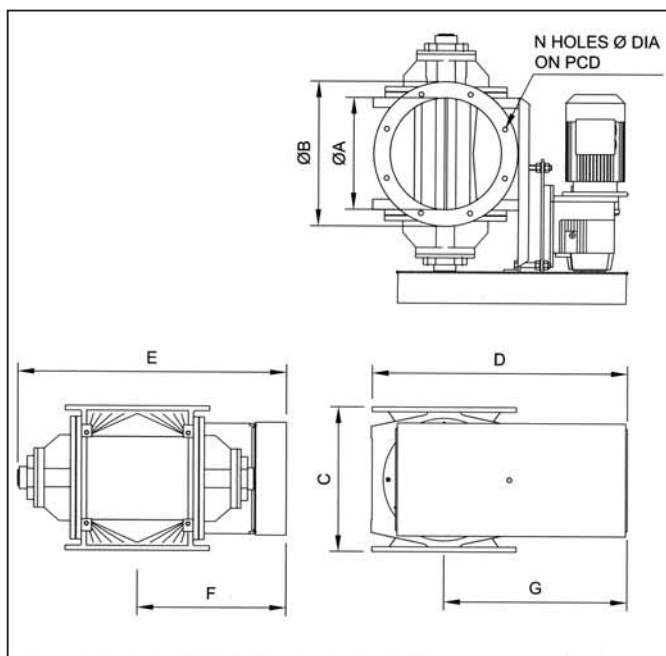


Bulkmatic Round Rotary Vane Feeders are manufactured in two basic types, Models “H” and “L”. Both designs include outboard bearings, machined stuffing boxes and “oversized” impeller shafts. The inlet ports have “V”s fabricated into the side wall to create a scissor cutting action between impeller blade and casing. This ensures smooth rotation without the “chopping effect” experienced with other valves. The result is increased bearing and impeller tip life.

The “L” type valve has a closed end impeller and has adjustable tips fitted as standard.

This valve is suitable for applications where the pressure differential is below 30 kPa and the material is non abrasive and free flowing. The “H” type valve has an open ended impeller and has adjustable tips fitted as standard. This valve is suitable for applications where the pressure differential is below 100 kPa and is ideal for use in Pneumatic Conveying Systems and heavy duty applications. Various options are available including different materials of construction such as stainless steel, soft “flexible” or “hard wearing” impeller tips, body venting, inlet scrapers, “hard chromed”, casings, air purged glands and high temperature construction.

Standard sizes include: 150, 200, 250, 300, 350, 400 and 500. Larger sizes manufactured on request.



Rotary Vane Feeders - Round H/L Type

UNIT NO.	DRIVE kW	A	B	C	D	E	F	G	N	DIA	PCD	WEIGHT kg
RVF-R-0150-H/L	0.25	169	250	250	475	510	280	348	6	12	219	80
RVF-R-0200-H/L	0.37	220	300	300	562	595	335	410	8	12	270	110
RVF-R-0250-H/L	0.55	274	355	355	670	665	370	490	8	12	315	180
RVF-R-0300-H/L	0.75	325	405	405	735	760	420	530	8	14	375	270
RVF-R-0400-H/L	1.50	410	510	510	860	900	495	605	8	14	465	315
RVF-R-0500-H/L	2.20	510	610	610	1005	1015	565	700	12	14	568	390



Bulkmatic Sampling Screws are designed to extract material sample from a stream of material flowing down a chute. The screw is designed to pick up material through a slot at the top of the screw and draw the material to a flanged outlet on the side. Provision has been made to purge the screw through an off-centre slot at the bottom of the screw when the motor is run in the opposite direction.

Precision laser cut flanges, side walls and screw conveyor tube slots ensure a quality finish with consistent hole spacing on the flanges.

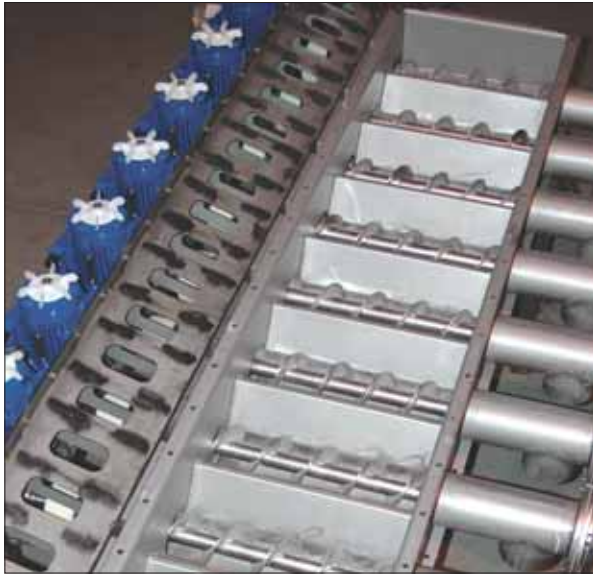
The standard unit is compatible with other Bulkmatic equipment such as rotary feeders, flap valves and knife gates.

Standard outlet flange is a NB50 SABS 1123/1000 flange. Other flanges can be supplied on request.

Standard material of manufacture is mild steel. Stainless steel 304 or 316 units with a quick release mechanism can be supplied for food grade applications. Round units are also available to suit customer specific flanging and chutes.

Standard flange sizes include: 150, 200, 250, 300, 400, 500 and 600. Other sizes and configurations are supplied on request.





Bulkmatic Screw Conveyors are available in standard diameters and are adjusted to suit customer requirements in terms of length and the inlet and outlet requirements. Screw conveyors are manufactured in a trough or enclosed tube type and can be supplied for horizontal, incline or vertical operation.

Trough type screw conveyors can be fitted with quick release lids while tube type screws can be fitted with inspection and material drain ports. The standard drive configuration makes use of a chain and sprocket drive while direct drive units with torque arm mounting and direct drive units with couplings are also available. The standard screw conveyors are fitted with a stuffing gland on both end shields and the outboard bearings are mounted on standoffs to allow easy maintenance access to the stuffing gland.

All incline screw conveyors are fitted with custom bearing housings designed to take additional axial shaft loading due to screw inclination. As a rule, all screw conveyors are designed without hanger bearings as these tend to create maintenance problems during operation. This necessitates larger shaft and corresponding casing diameters. This means that longer screw conveyors are generally more expensive in capital outlay than a corresponding screw with a hanger bearing. However, the cost of maintaining hanger bearings is often higher than the initial difference in the capital cost of the screw conveyor. This cost saving is often not taken into



consideration when comparing the cost of a screw conveyor with and without hanger bearings.

Specialised screws such as cooling screws, mixing screws, live bottom screws, dosing screws, hopper draw-off screws, twin and reversible screws and de-watering screws are designed and manufactured to suit customer requirements.

Standard material of manufacture is mild steel but units can also be supplied in stainless steel. High wearing flight material is supplied as an optional extra.

Bulkmatic prides itself in evaluating each screw conveyor application and supplying the most suitable screw conveyor to the customer.

Standard sizes include: 80, 100, 150, 200, 250, 300, 400, 500 and 600. Special sizes and configurations on request.





Bulkmatic Sight Glasses are precision machined to fit O-rings that are used to maintain a positive seal between the end flanges and the borosilicate glass sleeve. Tie bars are used to keep the assembly rigid.

The replaceable borosilicate glass sleeve is manufactured to DIN standards and is particularly suited for abrasive environments as well as withstanding a large range of industrial chemicals.

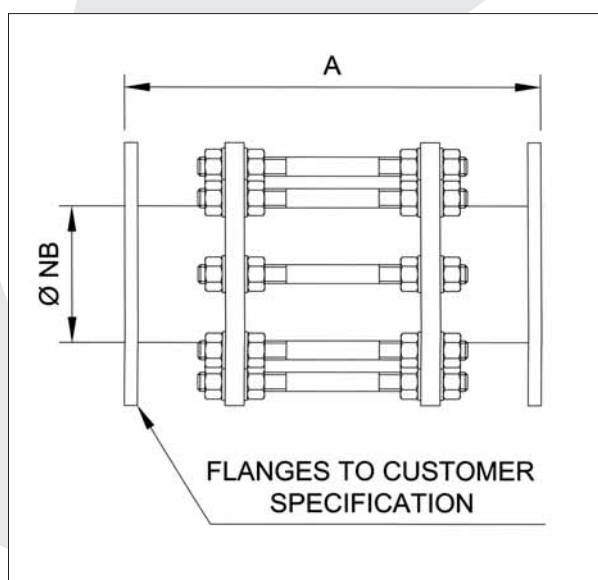
Bulkmatic Sight Glasses are sized to suit nominal bore pipe sizes and are supplied with SABS 1123/1000 flanges as a standard. Other flange specifications can be fitted on request.

Material of manufacture is mild steel with an electroplated finish. Sight glass bodies made from stainless steel are available on request.

Areas of application include pneumatic conveying systems with pressures up to 60kPa and they can be used for visual inspection in material feed chutes up to 250 NB in diameter.

Standard sizes include: NB80, NB100, NB125, NB150, NB200 and NB250.

Other sizes manufactured on request.



Sight Glasses				
UNIT NO.	NB SCH 40		A	WEIGHT kg
SG-0080	80	3"	350	8
SG-0100	100	4"	350	19
SG-0125	125	5"	350	22
SG-0150	150	6"	350	26
SG-0200	200	8"	350	40
SG-0250	250	10"	350	58



suddenly dislodges and slides down creating a vacuum above the material.

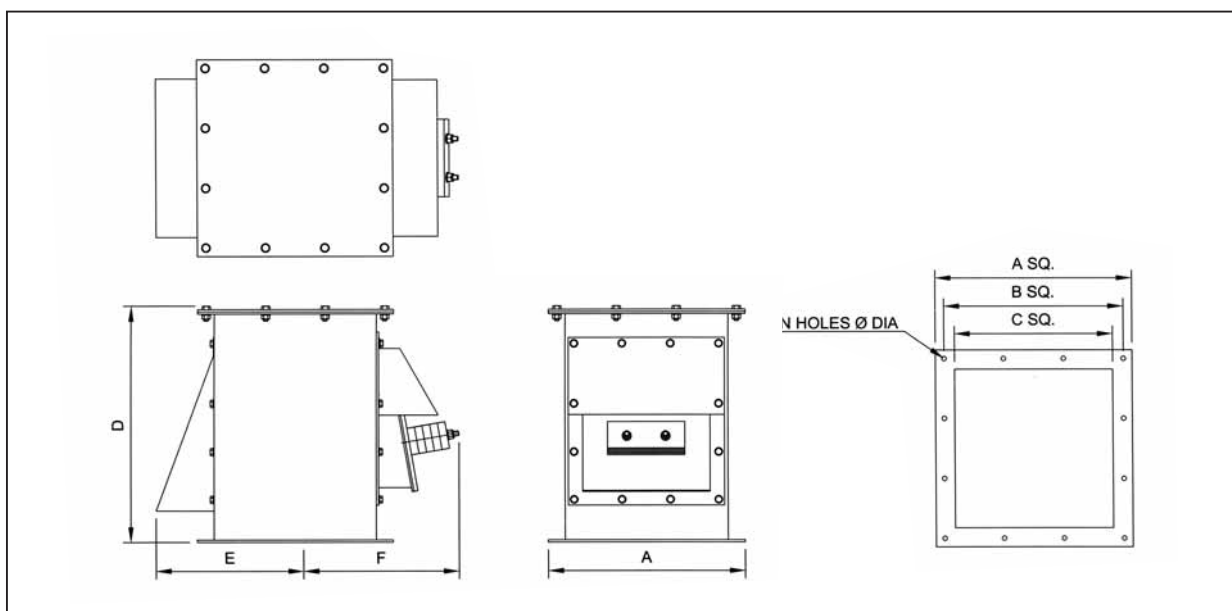
For the prevention of overpressure damage the valve would typically be fitted to bins and silos that are fed by a pneumatic conveying line or fed from a bulk tanker. Optional weather cowls are supplied for outdoor applications. A rubber seal on both flaps ensures an air tight seal.

The overpressure valve pressure and vacuum settings can be adjusted by changing the weights fitted to the sealing flaps. Standard settings are at +1.5 kPa and -1.5 kPa. The unit may not be used as a substitute for an explosion panel for potentially explosive products in the bin or silo. Typical material of construction is mild steel. Stainless steel units are also available. The silo safety valve can be ordered as an overpressure valve, vacuum breaker valve or as a combination of the two.

Bulkmatic Silo Safety Valves are used to protect bins and silos from overpressure and underpressure damage. Underpressure collapse of a silo may occur if a column of material that has hung up in the silo

Standard sizes include: 300, 400 and 500.

Other sizes and configurations are supplied on request.



Silo Safety Valves - Gravity Operated

UNIT NO.	A	B	C	D	E	F	N	DIA	WEIGHT kg
SSV-0300	405	3x125=375	315	415	245	340	12	14	45
SSV-0400	510	3x155=456	410	615	385	405	12	14	65
SSV-0500	610	4x142=568	510	710	480	475	16	14	90

Bulkmatic Bulk Storage Silos are designed to meet stringent safety requirements regarding structural integrity and stability. Non-destructive tests are performed during the manufacturing process to ensure that this integrity is not compromised. Every silo is supplied with a structural certificate signed off by a professional Engineer. Where necessary silos can be supplied with explosion vents, earthing straps and explosion prevention measures.

The silo outlet can be fitted with flow assisting devices such as aeration pads or vibrating bin dischargers. Standard filter flanges are fitted to the roof of the silo to tie in with commercially available reverse jet filters.

Provision can also be made for mounting loadcells in the support structure as well as fitting of tanker loading pipes and roof access via an attached catladder. Intermediate



platforms are supplied to ensure that maximum permissible catladder height is adhered to.

Silos up to approx. 5m in diameter and 20m in length can be transported in one piece while silos with larger diameters and lengths are generally delivered in sections and then site erected. Lagging, trace heating and cooling facilities can be added to silos as optional extras. Materials of manufacture are mild steel and stainless steel. Support structures are designed to customer requirements.

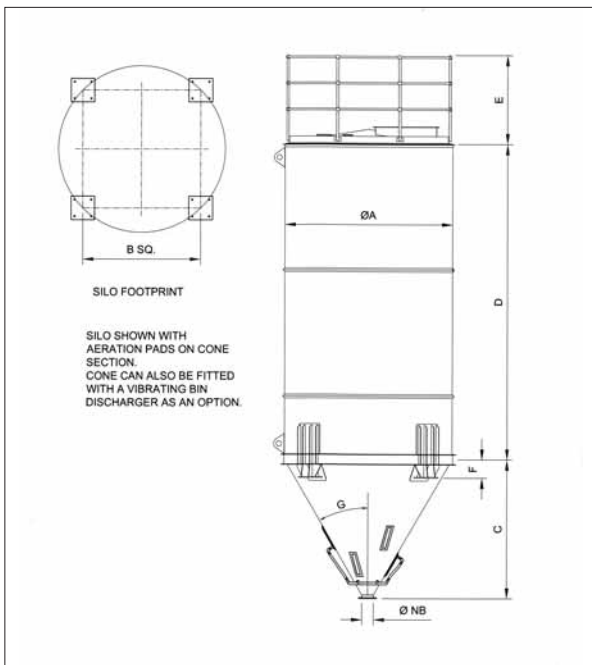
Silo Design Code:

EN 1991-4 Eurocode 1 — Actions on structures Part 4: Silos and tanks
EN 1993-4-1 Eurocode 3 — Designs of steel structures — Part 4-1: Silos
SAICE - The Structural Design of Steel Bins Silos — 1st edition
ECCS Technical Committee 8 — Buckling of steel Shells — Eurocode 3 Part 1-6

Support Steel Design Code:

Loading to SABS 0160: 1989
SABS 0162:1993; SANS 10162 part 1

Standard total silo volumes include: 20, 25, 40, 55, 60, 70, 85, 110, 130, 140, 150, 160, 170, 180, 190, 200, 250 and 300m³. Other sizes and configurations are supplied on request.



Bulk Storage Silos

UNIT NO.	A	NB		B	C	D	E	F	G	Total Volume m ³	Effective Volume m ³
BSS-0020	2536	200	8"	1800	2077	3300	1700	350	30°	20	17
BSS-0025	2536	200	8"	1800	2077	4400	1700	350	30°	25	22
BSS-0040	2536	200	8"	1800	2077	7000	1700	350	30°	40	35
BSS-0055	3172	200	8"	2250	2568	6000	1700	350	30°	55	50
BSS-0060	3172	200	8"	2250	2568	6800	1700	350	30°	60	55
BSS-0070	3172	200	8"	2250	2568	8000	1700	350	30°	70	65
BSS-0085	3172	200	8"	2250	2568	10150	1700	350	30°	85	80
BSS-0110	4122	250	10"	2926	3415	7200	1700	580	30°	110	100
BSS-0130	4122	250	10"	2926	3415	8625	1700	580	30°	130	120
BSS-0140	4122	250	10"	2926	3415	9200	1700	580	30°	140	125
BSS-0150	4122	250	10"	2926	3415	10100	1700	580	30°	150	140
BSS-0160	4122	250	10"	2926	3415	10800	1700	580	30°	160	150
BSS-0170	4122	250	10"	2926	3415	11600	1700	580	30°	170	160
BSS-0180	4122	250	10"	2926	3415	12300	1700	580	30°	180	170
BSS-0190	4122	250	10"	2926	3415	13050	1700	580	30°	190	178
BSS-0200	4122	250	10"	2926	3415	13800	1700	580	30°	200	190
BSS-0250	4404	300	12"	3118	3608	15120	2202	523	30°	250	235
BSS-0300	4404	300	12"	3118	3608	18600	2202	523	30°	300	285



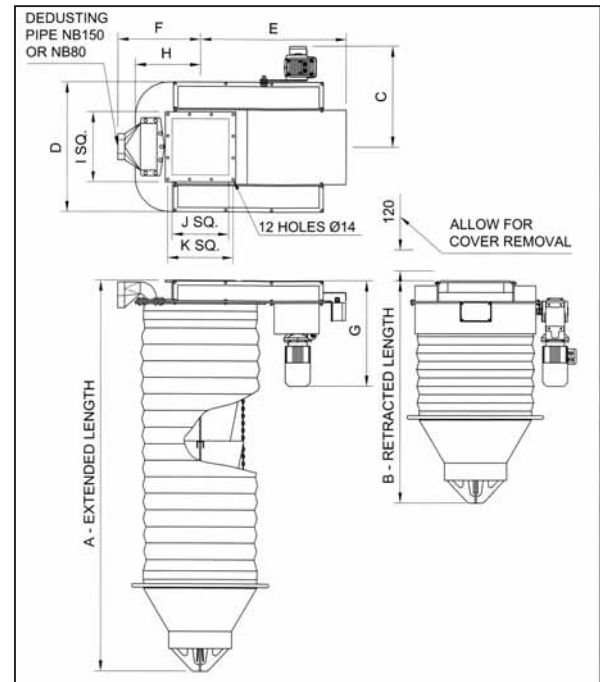
Bulkmatic Telescopic Loaders offer excellent wear resistance against abrasion by the flowing product. This is provided by a series of internal steel cones that fit into each other as the spout is retracted. This also allows for a large degree of swing and makes positioning of the spout easy. The robust outer PVC shroud provides a flexible dust proof cover allowing the air vented from the bulk tanker to bypass the flowing product. A dust control suction point is provided at the top of the Telescopic Loader. Backup limit switches and slack rope limit switches allow accurate and safe actuation of the Telescopic Loader. A coupling between motor and winding drum allows for smooth stops and starts and protects the winding mechanism and motor. A tuning fork type level sensor is housed in the tip of the Telescopic Loader as a standard. This is used to sense a tanker full condition and can be replaced by a capacitive or rotating type level switch depending on the type of product used. The switch is protected by a robust cage and the complete switch assembly with the cage can be unbolted from the bottom. The conical section of the head is rubber lined to protect the manhole on the tanker and provide electrical isolation.

“Hand operated” versions of the Telescopic Loader are also available. Material of manufacture is mild steel. Stainless steel and high temperature versions are available on request.

Standard size: 300 square or round inlet.

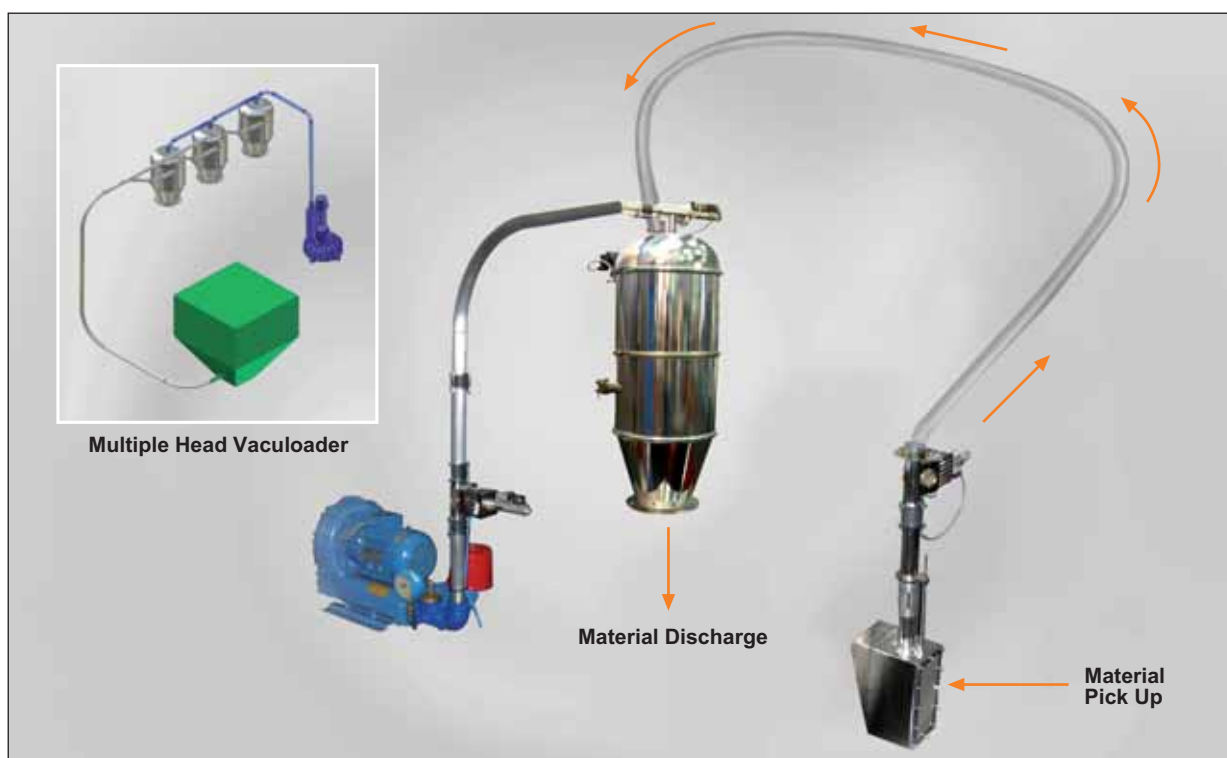
Standard extension length: 1000mm.

Other lengths and sizes manufactured on request.



Telescopic Loaders - Motorised / Hand

UNIT NO.	A	B	C	D	E	F	G	H	I	J	K	L	POWER kW	WEIGHT kg
TL-0300-M	2260	1290	585	750	845	475	540	375	405	325	375	320	0.55	206



Bulkmatic Vaculoaders are designed for distribution of pellets and powders to multiple points from a central hopper with feed rates up to 600 kg/hr. The unit is available in two robust modular configurations. The first is typically used for conveying plastic pellets that have no dust content. In this case a filter gauze is fitted to the head to prevent foreign particles from being drawn into the lateral channel vacuum blower.

Where powders are to be conveyed an additional section is added that houses a complete reverse jet pulse filtration system. This ensures that dust and powder is not drawn through the lateral channel blower and exhausted to atmosphere.

The system comprises of a lateral channel exhauster that is used to generate the suction vacuum, single or multiple loading heads, the suction box and the associated conveying piping. A single conveying line is used on multiple head systems and the sequencing is controlled via PLC.

An important advantage over competitive systems is the fact that the conveying line is purged of all material at the end of the conveying

cycle. This allows the switchover from one type of pellet to another on the same line and is useful in the plastics manufacturing industry where different machines are fed with different raw materials.

Vaculoaders can be used individually to load only one point or as a complete central vacuum system when used together with up to 8 other Vaculoaders. The vacuum head is used for powder conveying - the section below the top dome houses tube filter bags that are automatically cleaned by pulsing the bags with compressed air. The lateral channel exhauster is able to generate a much higher vacuum. The suction tube is designed so that the conveying rate can be adjusted by changing the immersion depth into the material and adjusting the false air suction through the rose fitting collar. Multiple suction port boxes can also be supplied where more than one conveying line feeds from a silo or daybin.

Standard feed rates are: 3kW up to 300 kg/hr or 4kW up to 600 kg/hr. Other feed rates can be accommodated on request.



Bulkmatic Vacuum Distribution Pots are used to distribute material from a bulk silo to multiple vacuum conveying systems typically used in the plastics industry. The unit is bolted to the outlet of a plastic pellet silo and allows up to 8 vacuum conveying pipes to be connected to nozzles fitted to the distribution pot. Flow rates through each of the nozzles can be controlled by manually adjusting the vent port opening. Inlet and conveying nozzle sizes can be manufactured to suit customer size requirements.

The inlet to the distribution pot can be closed completely at the level of the silo mating flange allowing safe access into the pot through a hatch fitted with a door on hinges. This allows cleaning access in the event that debris blocks any of the ports. In the event of a product change, the interface between silo and distribution pot can

be closed and the complete bottom cover plate removed. The handle can be reattached which will allow manual controlled opening of the silo outlet to clear the silo of the material to be changed.

The unit can be supplied in painted mild steel or as an alternative supplied in stainless steel 304 or 316.





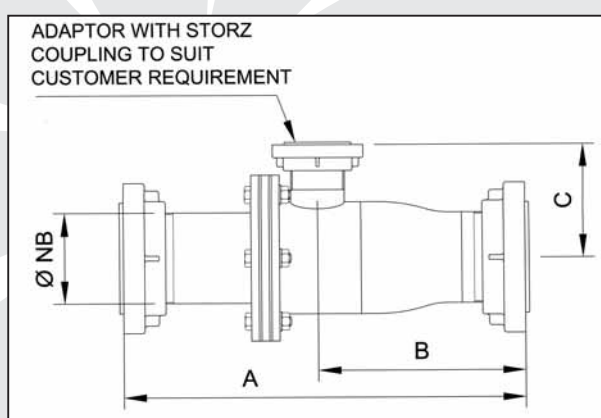
Bulkmatic Venturis are used to assist in entraining additional conveying air during the unloading of bulk tankers. The units are fitted with standard Storz couplings with the most common size venturi used being the 100NB unit.

The units are precision manufactured – in particular with regard to the concentricity of the inner and outer tubes. This ensures an even air entrainment gap. Misalignment here causes one-sided wear on the venturi body and reduces the service life of the unit.

Modern manufacturing processes such as lasercutting of the custom manufactured flanges ensures repeatability and guaranteed fitting of replacement tubes. Units for unloading bulk rail

tankers are also available and feature an adjustable inner tube that is hard chromed for additional wear resistance .

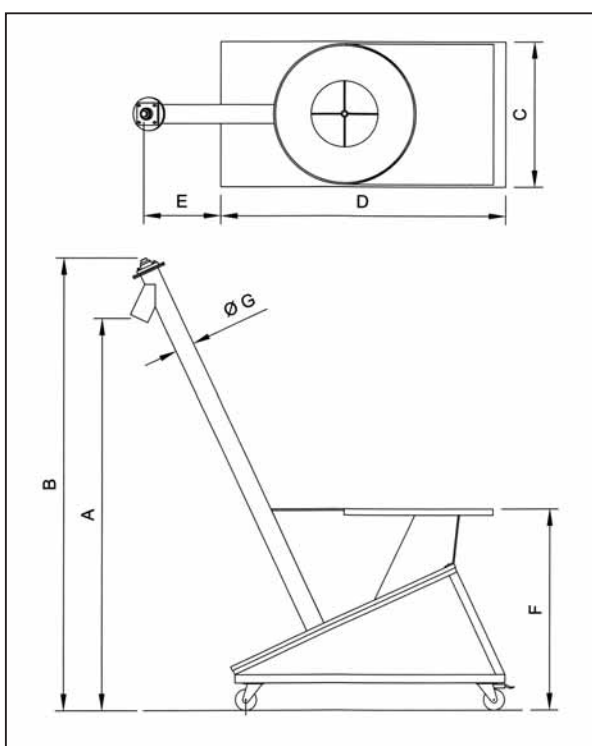
Standard sizes include: 80NB, 100NB and 125NB. Other sizes manufactured on request.



Venturis						
UNIT NO.	NB SCH 40		A	B	C (MIN)	WEIGHT kg
VTR-0080	80	3"	435	205	120	17
VTR-0100	100	4"	515	265	140	45
VTR-0125	125	5"	755	390	165	90

Bulkmatic Vertical Elevating Screws are used to elevate material into hoppers and bins that are installed at elevated positions that are not easily accessible. The discharge height can be manufactured to suit between 1000mm and 3500mm. An integrated rotating paddle fitted to the bottom of the loading hopper ensures that material does not hang up in the hopper and ensures even flow into the lifting screw conveyor. The inlet hopper is fitted with a grid for safety purposes. While providing protection for the operator the grid also prevents ingress of foreign objects such as pieces of the loading bag.

For mobile applications the unit is fitted with castors. Alternatively the unit can be bolted in position on fixed applications. The bottom of the



screw conveyor is fitted with an integral access and cleaning hatch and can be fitted with a safety cut-out on request. The cleaning hatch also allows for cleaning of the unit where the Vertech is to be used to feed different types of materials. A bag tray is fitted to the rim of the inlet hopper. This is situated at an ergonomic height and allows the operator to rest the bag without having to support the weight of the bag during the dumping process. Easy access to the drive mechanism and motor is via a back panel on the Vertech making maintenance easy.

Standard material of manufacture is mild steel. Stainless steel versions are available on request.

Standard size: Outlet 80NB, discharge height between 1000mm and 3500mm.

Vertical Elevating Screws											
UNIT NO.	A		B		C	D	E		F	G	WEIGHT kg
	(MIN)	(MAX)	(MIN)	(MAX)			(MIN)	(MAX)			(MIN) (MAX)
VES-0100	1000	3500	1300	3700	700	1200	20	1175	960	114	155 210



Bulkmatic Vibrating Bin Dischargers are designed to ensure even flow of granular or powdered materials out of a holding silo or hopper. Together with the correct hopper cone angle this ensures that difficult materials that tend to bridge, rathole or settle and agglomerate are gently shaken by the circular vibratory motion of the vibrating bin discharger allowing them to flow freely from the vibrating bin discharger outlet.

Laser profiling of supports and rubber mounting brackets ensures consistent part size and eliminates

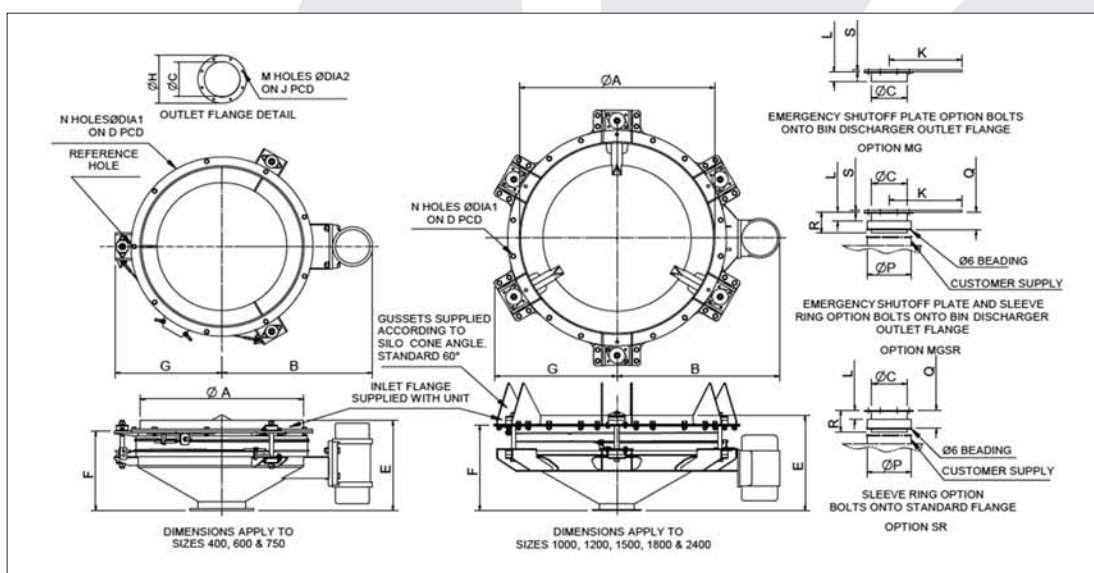
misalignment of the rubber supports during assembly. The mounts are custom designed to be “fail-safe” ensuring that the bin discharger bottom does not drop when the rubber mounts are worn or damaged.

As an option the flow rate out of the vibrating bin discharger can be controlled by using a timer controlling the on/off sequencing of the vibrator motor. The rubber sealing skirt and clamps ensure that the fixed part and vibrating part of the vibrating bin discharger are separated and ensure positive sealing between the components at the same time.

The unit outlets are fitted with emergency spectacle type slide gates (Option MG). Vibrating Bin Dischargers can be supplied in stainless steel or lined with ceramic as an option.

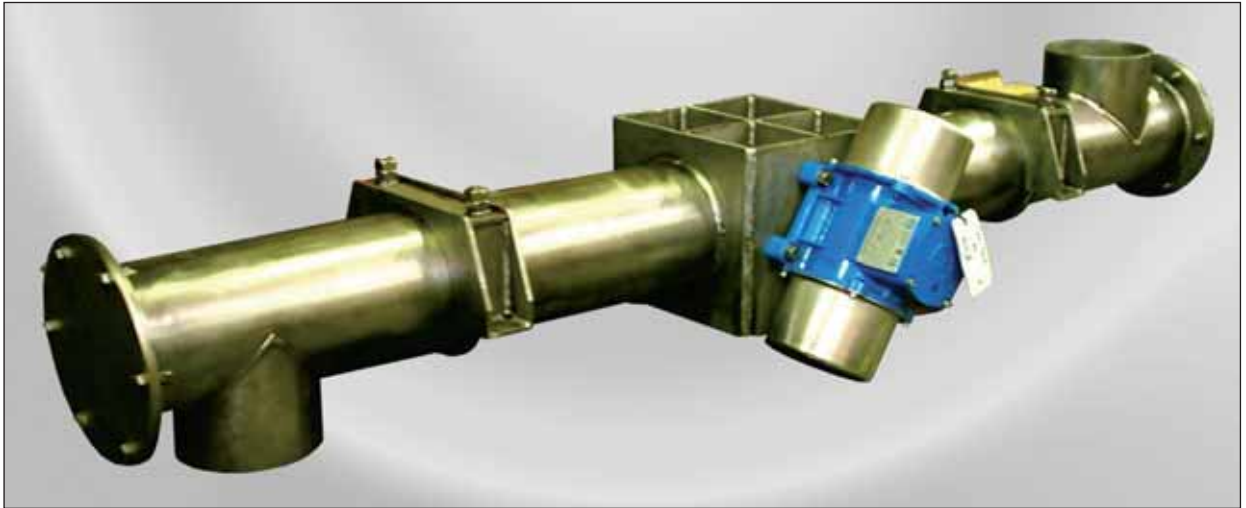
Standard sizes include: 400, 600, 750, 1000, 1200, 1500, 1800 and 2400.

Other sizes manufactured on request.



Vibrating Bin Dischargers – Vibrator Motor Driven

UNIT NO.	A	B	C	D	E	F	G	H	N	DIA 1	M	DIA 2	J	K	L	S	P	Q	R	POWER W	WEIGHT kg
VBD-0400	410	490	114.3	465	278	238	330	195	8	14	6	10	164	275	50	6	141.3	106	136	160	45
VBD-0600	612	640	168.3	680	380	330	430	249	9	14	6	12	219	335	50	6	219.1	106	136	350	125
VBD-0750	766	705	219.1	820	428	370	500	300	9	14	8	12	270	420	50	8	273	108	138	620	140
VBD-1000	1008	850	219.1	1100	540	480	675	300	12	18	8	12	270	420	50	8	273	108	138	620	305
VBD-1200	1208	1010	219.1	1300	598	538	760	300	18	18	8	12	270	420	75	8	273	133	163	900	320
VBD-1500	1520	1125	323.8	1645	717	652	965	405	18	22	8	14	375	550	75	8	406.4	133	163	1100	760
VBD-1800	1820	1340	323.8	1945	815	750	1110	405	18	22	8	14	375	550	75	8	406.4	133	163	1600	950
VBD-2400	2424	1685	323.8	2570	1030	995	1475	405	18	26	8	14	375	550	75	8	406.4	133	163	1800	1470



Bulkmatic Vibrating Feeders are manufactured using the latest technology including CAD and laser profiling. Laser profiling is specifically used for the flanges, foot and motor supports and the rubber mounting brackets ensuring consistent, accurate and repeatable part size. Each feeder application is assessed independently and the feeder designed to suit the type of material and feed rate required. Vibrating Feeders are available as a tube or trough type and rely on two robust vibrator motors to generate the oscillating motion of the feeder. The feeders can either be foot mounted or suspended. The eccentric weight settings on the motors are adjustable to fine tune the required feed rate.

For abrasive materials the base of the infeed tube can be fitted with an abrasive resistant liner that will increase the life of the tube. The inlet and outlet are configurable to suit customer requirements. Bulkmatic vibrating feeders are available in mild steel or stainless steel. Feed into a vibrating tube feeder should preferably be controlled while the feed into vibratory tray feeders can be controlled via an adjustable spade plate on the hopper outlet. Vibratory tube feeders can be sealed by means of flexible couplings ensuring dust free operation.

Standard sizes include: 100, 150, 200, 250, 300, 400 and 500. Other sizes manufactured on request.



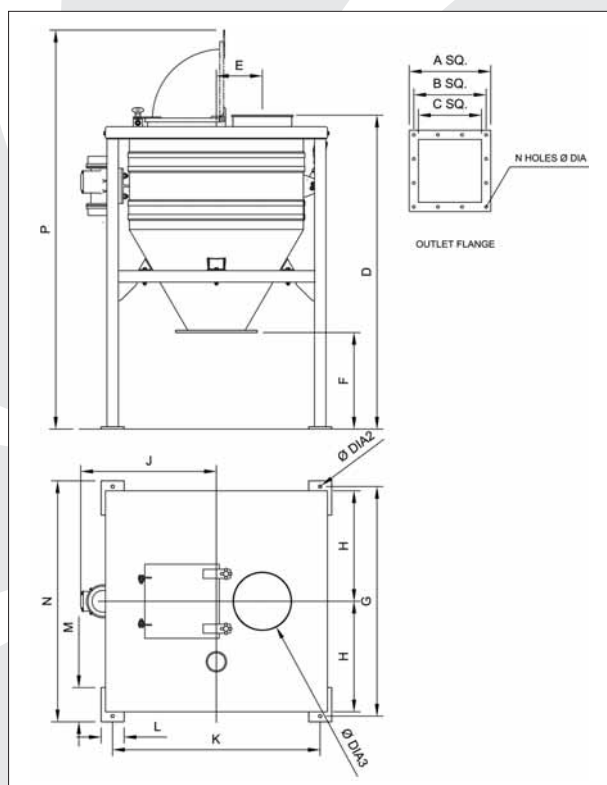


On the manual bag loading unit the lid is replaced with a loading chute and as an optional extra with an integrated reverse jet pulse filter to eliminate dust emissions during the loading of material.

Sieve aperture sizes are selected according to customer requirements.

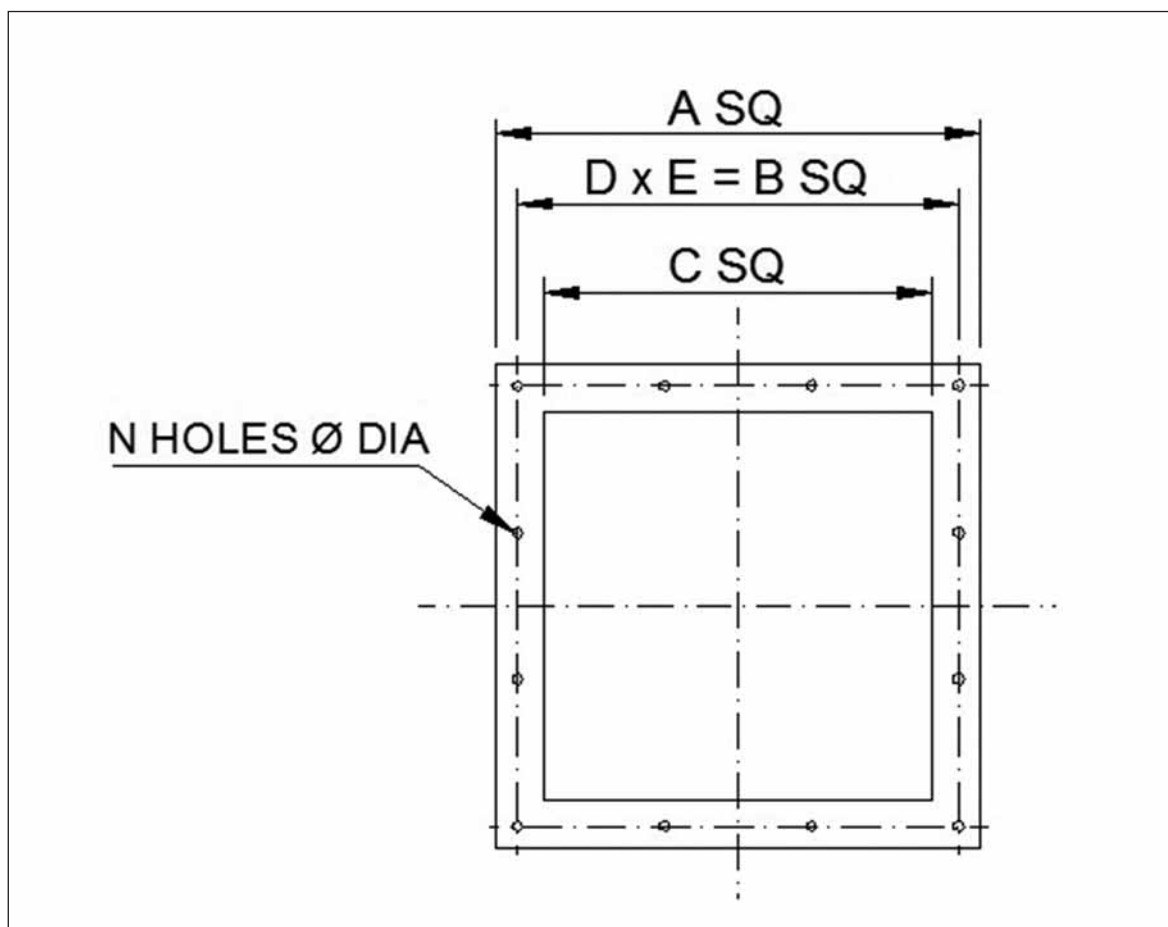
Bulkmatic Vibrating Sieves are primarily used to prevent foreign objects from being transferred into a process when unloading raw products in paper, plastic or hessian bags. The unit can either be used under an automatic bag slitting machine or fitted with a hatch to load bags into the unit directly. Outlet flange sizes can be modified to suit customer requirements.

The screen is bolted into the screening ring that is isolated from the support frame and inlet and outlet chute by means of Rosta tensioners and flexible sleeves. The vibrating motor is mounted to the screening ring and creates a rotary motion in the horizontal plane to assist in the screening process. Materials of manufacture are mild or stainless steel. An inspection hatch allows access to the screen for cleaning purposes. An 80NB de-dusting spigot is provided for on the top cover and should be connected to a de-dusting facility.



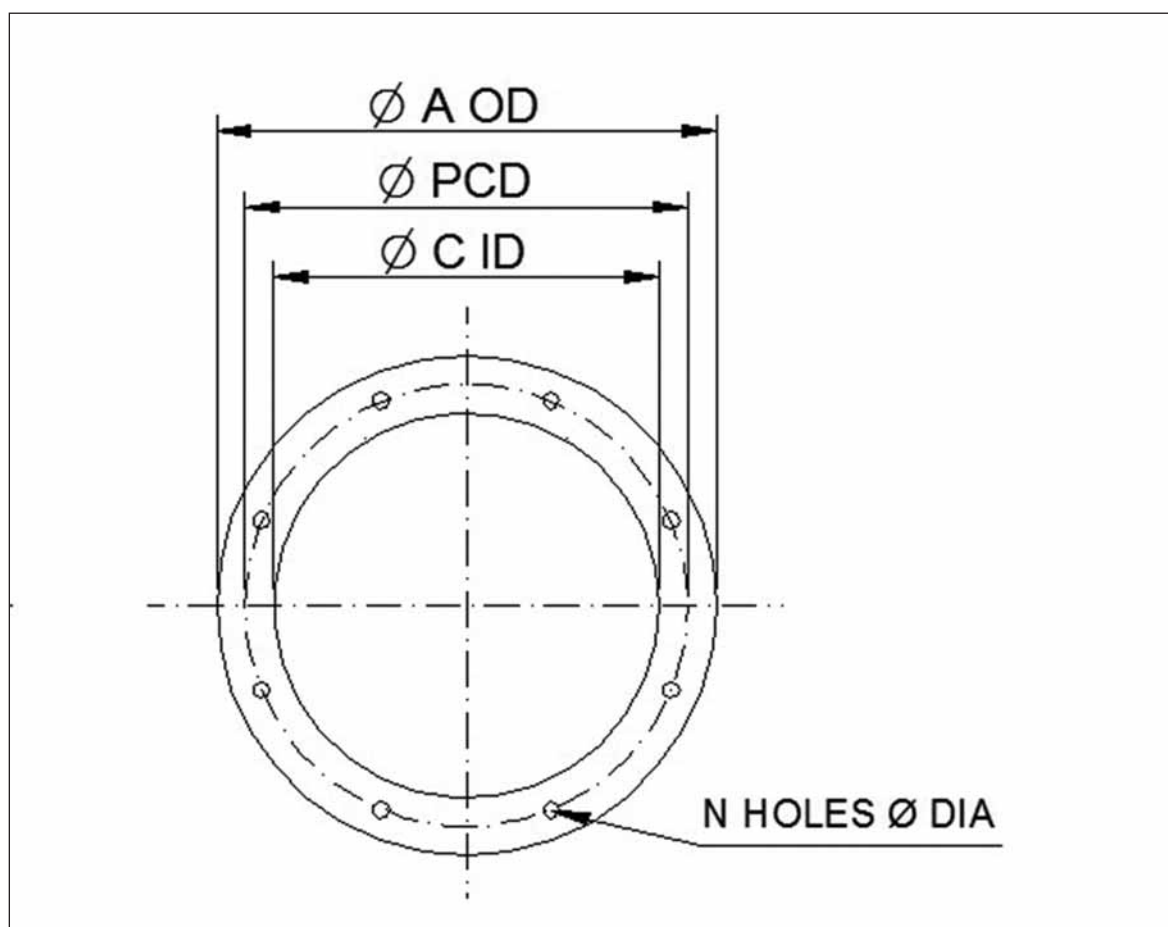
Vibrating Sieves

UNIT NO.	A	B	C	D	E	F	G	H	J	K	L	M	P	Q	N	DIA1	DIA2	DIA3	POWER kW	WEIGHT kg
VS-0750	355	315	275	1370	200	420	1004	483	595	904	100	150	1742	1054	12	12	14	219,3	0,12	186



Standard Equipment Square Flange Sizes

SIZE	A	B	C	D	E	N	DIA
100	195	165	115	1	165	4	10
150	250	210	169	1	210	8	10
200	300	270	220	3	90	12	12
250	355	315	275	3	105	12	12
300	405	375	325	3	125	12	14
350	440	405	360	3	135	12	14
400	510	465	410	3	155	12	14
450	560	520	460	4	130	16	14
500	610	568	510	4	142	16	14
600	730	680	610	4	170	16	18
700	855	795	715	5	159	20	18
800	955	895	815	5	179	20	18



Standard Equipment Round Flange Sizes

SIZE	A	PCD	C	N	DIA
100	195	164	115	6	10
150	250	219	169	6	12
200	300	270	220	8	12
250	355	315	274	8	12
300	405	375	325	8	14
350	440	405	360	8	14
400	510	465	410	8	14
450	560	520	460	10	14
500	610	568	510	12	14
600	730	680	610	12	18
700	855	795	715	16	18
800	955	895	815	16	18

Aeration Pads
Air Slides
Bag Unloaders
Bucket Elevators
Bulk Bag Fillers
Bulk Bag Unloaders
Bulk Tanker Loaders
Butterfly Dampers
Clamshell Gates
Diverter Chutes
Diverter Valves
Dosing Screws
Drum Tippers
Feeding Tees

Filling Pipe Assemblies
Finger Crushers
Double Flap Valves
Flow Control Gates
Knife Gates
Louvre Dampers
Lump Breakers
Lump Sifters
Overpressure Valves
Paddle Mixers
Ribbon Blenders
Rod Gates
Rotary Vane Feeders
Sampling Screws

Screw Conveyors
Sight Glasses
Silo Safety Valves
Silos
Telescopic Loaders
Vacuoloaders
Vacuum Distribution Pots
Venturis
Vertical Elevating Screws
Vibrating Bin Dischargers
Vibrating Feeders
Vibrating Sieves

And many more...

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